



NASA

PATENT

ABSTRACTS

BIBLIOGRAPHY

A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

JUNE 1990

(NASA-SP-7039(37)-Sect-2) NASA PATENT
ABSTRACTS BIBLIOGRAPHY: A CONTINUING
BIBLIOGRAPHY. SECTION 2: INDEXES (SUPPLEMENT
37) (NASA) 507 p

CSC 05B

N90-26700

Unclas
0293385

00/82

ACCESSION NUMBER RANGES

<i>Bibliography Number</i>	<i>STAR Accession Numbers</i>
NASA SP-7039(04) SEC 1	N69-20701 - N73-33931
NASA SP-7039(12) SEC 1	N74-10001 - N77-34042
NASA SP-7039(13) SEC 1	N78-10001 - N78-22018
NASA SP-7039(14) SEC 1	N78-22019 - N78-34034
NASA SP-7039(15) SEC 1	N79-10001 - N79-21993
NASA SP-7039(16) SEC 1	N79-21994 - N79-34158
NASA SP-7039(17) SEC 1	N80-10001 - N80-22254
NASA SP-7039(18) SEC 1	N80-22255 - N80-34339
NASA SP-7039(19) SEC 1	N81-10001 - N81-21997
NASA SP-7039(20) SEC 1	N81-21998 - N81-34139
NASA SP-7039(21) SEC 1	N82-10001 - N82-22140
NASA SP-7039(22) SEC 1	N82-22141 - N82-34341
NASA SP-7039(23) SEC 1	N83-10001 - N83-23266
NASA SP-7039(24) SEC 1	N83-23267 - N83-37053
NASA SP-7039(25) SEC 1	N84-10001 - N84-22526
NASA SP-7039(26) SEC 1	N84-22527 - N84-35284
NASA SP-7039(27) SEC 1	N85-10001 - N85-22341
NASA SP-7039(28) SEC 1	N85-22342 - N85-36162
NASA SP-7039(29) SEC 1	N86-10001 - N86-22536
NASA SP-7039(30) SEC 1	N86-22537 - N86-33262
NASA SP-7039(31) SEC 1	N87-10001 - N87-20170
NASA SP-7039(32) SEC 1	N87-20171 - N87-30248
NASA SP-7039(33) SEC 1	N88-10001 - N88-20253
NASA SP-7039(34) SEC 1	N88-20254 - N88-30583
NASA SP-7039(35) SEC 1	N89-10001 - N89-20085
NASA SP-7039(36) SEC 1	N89-20086 - N89-30155
NASA SP-7039(37) SEC 1	N90-10001 - N90-20043

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Section 2
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NASA

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A CONTINUING BIBLIOGRAPHY

Section 2 • Indexes

Indexes for the annotated references to NASA-owned inventions covered by U.S. patents and applications for patent that were announced in *Scientific and Technical Aerospace Reports (STAR)* between May 1969 and June 1990. This issue supersedes all previous Index Sections.



National Aeronautics and Space Administration
Office of Management
Scientific and Technical Information Division
Washington, DC

1990

This supplement is available from the National Technical Information Service (NTIS), Springfield, Virginia 22161, price code A23.

INTRODUCTION

Several thousand inventions result each year from the aeronautical and space research supported by the National Aeronautics and Space Administration. The inventions having important use in government programs or significant commercial potential are usually patented by NASA. These inventions cover practically all fields of technology and include many that have useful and valuable commercial application.

NASA inventions best serve the interests of the United States when their benefits are available to the public. In many instances, the granting of nonexclusive or exclusive licenses for the practice of these inventions may assist in the accomplishment of this objective. This bibliography is published as a service to companies, firms, and individuals seeking new, licensable products for the commercial market.

The *NASA Patent Abstracts Bibliography (NASA PAB)* is a semiannual NASA publication containing comprehensive abstracts and indexes of NASA-owned inventions covered by U.S. patents and applications for patent. The citations included in *NASA PAB* were originally published in NASA's *Scientific and Technical Aerospace Reports (STAR)* and cover *STAR* announcements made since May 1969.

For the convenience of the user, each issue of *NASA PAB* has a separately bound Abstract Section (Section 1) and Index Section (Section 2). Although each Abstract Section covers only the indicated six-month period, the Index Section is cumulative covering all NASA-owned inventions announced in *STAR* since 1969. Thus a complete set of *NASA PAB* would consist of the Abstract Sections of Issue 04 (January 1974) and Issue 12 (January 1978) and the Abstract Section for all subsequent issues and the Index Section for the most recent issue.

The 76 citations published in this issue of the Abstract Section cover the period January 1990 through June 1990. The Index Section references over 4600 citations covering the period May 1969 through June 1990.

ABSTRACT SECTION (SECTION 1)

This *PAB* issue includes 10 major subject divisions separated into 76 specific categories and one general category/division. (See Table of Contents for the scope note of each category, under which are grouped appropriate NASA inventions.) This scheme was devised in 1975 and revised in 1987 in lieu of the 34 category divisions which were utilized in *PAB* supplements (01) through (06) covering *STAR* abstracts from May 1969 through January 1974. Each entry in the Abstract Section consists of a *STAR* citation accompanied by an abstract and, when appropriate, a key illustration taken from the patent or application for patent. Entries are arranged by subject category in order of the ascending NASA Accession Number originally assigned for *STAR* to the invention. The range of NASA Accession Numbers within each issue is printed on the inside front cover.

Abstract Citation Data Elements: Each of the abstract citations has several data elements useful for identification and indexing purposes, as follows:

- NASA Accession Number
- NASA Case Number
- Inventor's Name
- Title of Invention
- U.S. Patent Application Serial Number
- U.S. Patent Number (for issued patents only)
- U.S. Patent Office Classification Number(s)
(for issued patents only)

These data elements are identified in the Typical Citation and Abstract and in the indexes.

INDEX SECTION (SECTION 2)

The Index Section is divided into five indexes. These indexes are cross-indexed and are used to locate a single invention or groups of inventions.

Subject Index: Lists all inventions according to appropriate alphabetized technical term and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Inventor Index: Lists all inventions according to alphabetized names of inventors and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Source Index: Lists all inventions according to alphabetized source of invention (i.e., name of contractor or government installation where invention was made) and indicates the related NASA Case Number, the Subject Category Number, and the Accession Number.

Number Index: Lists inventions in order of ascending (1) NASA Case Number, (2) U.S. Patent Application Serial Number, (3) U.S. Patent Classification Number, and (4) U.S. Patent Number and indicates the related Subject Category Number and the Accession Number.

Accession Number Index: Lists all inventions in order of ascending Accession Number and indicates the related Subject Category Number, the NASA Case Number, the U.S. Patent Application Serial Number, the U.S. Patent Classification Number, and the U.S. Patent Number.

HOW TO USE THIS PUBLICATION TO IDENTIFY NASA INVENTIONS

To identify one or more NASA inventions within a specific technical field or subject, several techniques are possible with the flexibility incorporated into the *NASA PAB*.

(1) *Using Subject Category:* To identify all NASA inventions in any one of the subject categories in this issue of *NASA PAB*, select the desired Subject Category in the Abstract Section (Section 1) and find the inventions abstracted thereunder.

(2) *Using Subject Index:* To identify all NASA inventions listed under a desired technical subject index term, (A) turn to the cumulative Subject Index in the Index Section and find the invention(s) listed under the desired technical subject term. (B) Note the indicated Accession Number and the Subject Category Number. (C) Using the indicated Accession Number, turn to the inside front cover of the Index Section to determine which issue of the Abstract Section includes the Accession Number desired. (D) To find the abstract of the particular invention in the issue of the Abstract Section selected, (1) use the Subject Category Number to locate the Subject Category and (2) use the Accession Number to locate the desired invention within the Subject Category listing.

(3) *Using Patent Classification Index:* To identify all inventions covered by issued NASA patents (not including applications for patent) within a desired Patent Classification, (A) turn to the Patent Classification Number in the Number Index of Section 2 and find the associated invention(s), and (B) follow the instructions outlined in (2)(B), and (D) above.

TYPICAL CITATION AND ABSTRACT

NASA SPONSORED

ACCESSION NUMBER → **N90-17118*** National Aeronautics and Space Administration. ← **CORPORATE SOURCE**
Pasadena Office, CA.

TITLE → **TAILORABLE INFRARED SENSING DEVICE WITH STRAIN LAYER SUPERLATTICE STRUCTURE Patent**

INVENTOR → **LI-JEN CHENG**, inventor (to NASA) (California Inst. of Tech., Pasadena.) 27 Jun. 1989 10 p Filed Nov. 25, 1987

NASA CASE NUMBER → **(NASA-CASE-NPO-16617-2-CU; US-PATENT-4,843,439;**

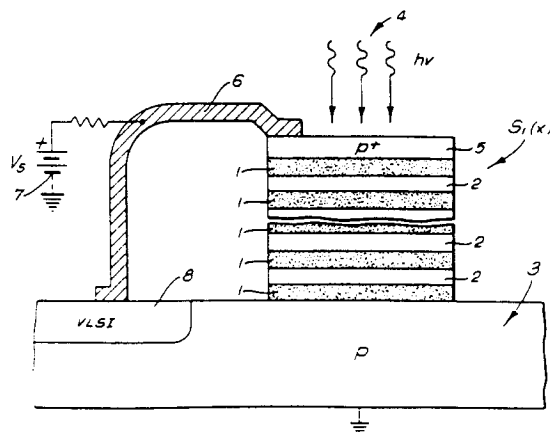
US PATENT APPLICATIONS → **US-PATENT-APPL-SN-125676; US-PATENT-CLASS-357-4;**

SERIAL NUMBERS → **US-PATENT-CLASS-357-30; US-PATENT-CLASS-357-13;**

US-PATENT-CLASS-357-61) Avail: US Patent and Trademark Office CSCL 14B ← **AVAILABILITY SOURCE**

COSATI CODE → An infrared photodetector is formed of a heavily doped p-type $\text{Ge}(x)\text{Si}(1-x)/\text{Si}$ superlattice in which x is pre-established during manufacture in the range 0 to 100 percent. A custom tailored photodetector that can differentiate among close wavelengths in the range of 2.7 to 50 microns is fabricated by appropriate selection of the alloy constituency value, x , to establish a specific wavelength at which photo-detection cut-off will occur. ← **ABSTRACT**

Official Gazette of the U.S. Patent and Trademark Office



KEY ILLUSTRATION

Subject Categories

(1969 - 1973)

01 Aerodynamics

Includes aerodynamics of bodies, combinations, internal flow in ducts and turbomachinery; wings, rotors, and control surfaces. For applications see: 02 Aircraft; and 32 Space Vehicles. For related information see also: 12 Fluid Mechanics; and 33 Thermodynamics and Combustion.

02 Aircraft

Includes fixed-wing airplanes, helicopters, gliders, balloons, ornithopters, etc.; and specific types of complete aircraft; e.g., ground effect machines, STOL, and VTOL; flight tests; operating problems; e.g., sonic boom; safety and safety devices; economics; and stability and control. For basic research see: 01 Aerodynamics. For related information see also: 31 Space Vehicles; and 32 Structural Mechanics.

03 Auxiliary Systems

Includes fuel cells, energy conversion cells, and solar cells; auxiliary gas turbines; hydraulic, pneumatic and electrical systems; actuators; and inverters. For related information see also: 09 Electronic Equipment; 22 Nuclear Engineering; and 28 Propulsion Systems.

04 Biosciences

Includes aerospace medicine, exobiology, radiation effects on biological systems; physiological and psychological factors. For related information see also: 05 Biotechnology.

05 Biotechnology

Includes life support systems, human engineering; protective clothing and equipment; crew training and evaluation, and piloting. For related information see also: 04 Biosciences.

06 Chemistry

Includes chemical analysis and identification; e.g., spectroscopy. For applications see: 17 Materials, Metallic; 18 Materials, Nonmetallic; and 27 Propellants.

07 Communications

Includes communications equipment and techniques; noise; radio and communications blackout; modulation telemetry; tracking radar and optical observation; and wave propagation. For basic research see: 23 Physics, General; and 21 Navigation.

08 Computers

Includes computer operation and programming; and data processing. For applications, see specific categories. For related information see also: 19 Mathematics.

09 Electronic Equipment

Includes electronic test equipment and maintainability; component parts; e.g., electron tubes, tunnel diodes, transistors, integrated circuitry; microminiaturization. For basic research see: 10 Electronics. For related information see also: 07 Communications; and 21 Navigation.

10 Electronics

Includes circuit theory; and feedback and control theory. For applications see: 09 Electronic Equipment. For related information see specific Physics categories.

11 Facilities, Research and Support

Includes airports; lunar and planetary bases including associated vehicles; ground support systems; related logistics; simulators; test facilities; e.g., rocket engine test stands, shock tubes, and wind tunnels; test ranges; and tracking stations.

12 Fluid Mechanics

Includes boundary-layer flow; compressible flow; gas dynamics; hydrodynamics; and turbulence. For related information see also: 01 Aerodynamics; and 33 Thermodynamics and Combustion.

13 Geophysics

Includes aeronomy; upper and lower atmosphere studies; oceanography; cartography; and geodesy. For related information see also: 20 Meteorology; 29 Space Radiation; and 30 Space Sciences.

14 Instrumentation and Photography

Includes design, installation, and testing of instrumentation systems; gyroscopes; measuring instruments and gauges; recorders, transducers; aerial photography; and telescopes and cameras.

15 Machine Elements and Processes

Includes bearings, seals, pumps, and other mechanical equipment; lubrication, friction, and wear; manufacturing processes and quality control; reliability; drafting; and materials fabrication, handling, and inspection.

16 Masers

Includes applications of masers and lasers. For basic research see: 26 Physics, Solid-State.

17 Materials, Metallic

Includes cermets; corrosion; physical and mechanical properties of materials; metallurgy; and applications as structural materials. For basic research see: 06 Chemistry. For related information see also: 18 Materials, Nonmetallic; and 32 Structural Mechanics.

18 Materials, Nonmetallic

Includes corrosion; physical and mechanical properties of materials; e.g., plastics; and elastomers, hydraulic fluids, etc. For basic research see: 06 Chemistry. For related information see also: 17 Materials, Metallic; 27 Propellants; and 32 Structural Mechanics.

19 Mathematics

Includes calculation methods and theory; and numerical analysis. For applications see specific categories. For related information see also: 08 Computers.

20 Meteorology

Includes climatology; weather forecasting; and visibility studies. For related information see also: 13 Geophysics; and 30 Space Sciences.

21 Navigation

Includes guidance; autopilots; star and planet tracking; inertial platforms; and air traffic control. For related information see also: 07 Communications.

22 Nuclear Engineering

Includes nuclear reactors and nuclear heat sources used for propulsion and auxiliary power. For basic research see: 24 Physics, Atomic, Molecular, and Nuclear. For related information see also: 03 Auxiliary Systems; and 28 Propulsion Systems.

23 Physics, General

Includes acoustics, cryogenics, mechanics, and optics. For astrophysics see: 30 Space Sciences. For geophysics and related information see also: 13 Geophysics; 20 Meteorology; and 29 Space Radiation.

24 Physics, Atomic, Molecular, and Nuclear

Includes atomic, molecular and nuclear physics. For applications see: 22 Nuclear Engineering. For related information see also: 29 Space Radiation.

25 Physics, Plasma

Includes magnetohydrodynamics. For applications see: 28 Propulsion Systems.

26 Physics, Solid-State

Includes semiconductor theory; and superconductivity. For applications see: 16 Masers. For related information see also: 10 Electronics.

27 Propellants

Includes fuels; igniters; and oxidizers. For basic research see: 06 Chemistry; and 33 Thermodynamics and Combustion. For related information see also: 28 Propulsion Systems.

28 Propulsion Systems

Includes air breathing, electric, liquid, solid, and magnetohydrodynamic propulsion. For nuclear propulsion see: 22 Nuclear Engineering. For basic research see: 23 Physics, General; and 33 Thermodynamics and Combustion. For applications see: 31 Space Vehicles. For related information see also: 27 Propellants.

29 Space Radiation

Includes cosmic radiation; solar flares; solar radiation; and Van Allen radiation belts. For related information see also: 13 Geophysics; and 24 Physics, Atomic, Molecular, and Nuclear.

30 Space Sciences

Includes astronomy and astrophysics; cosmology; lunar and planetary flight and exploration; and theoretical analysis of orbits and trajectories. For related information see also: 11 Facilities, Research and Support; and 31 Space Vehicles.

31 Space Vehicles

Includes launch vehicles; manned space capsules; clustered and multistage rockets; satellites; sounding rockets and probes; and operating problems. For basic research see: 30 Space Sciences. For related information see also: 28 Propulsion Systems; and 32 Structural Mechanics.

32 Structural Mechanics

Includes structural element design and weight analysis; fatigue; thermal stress; impact phenomena; vibration; flutter; inflatable structures; and structural tests. For related information see also: 17 Materials, Metallic; and 18 Materials, Nonmetallic.

33 Thermodynamics and Combustion

Includes ablation, cooling, heating, heat transfer, thermal balance, and other thermal effects; and combustion theory. For related information see also: 12 Fluid Mechanics; and 27 Propellants.

34 General

Includes information of a broad nature related to industrial applications and technology, and to basic research; defense aspects; information retrieval; management; law and related legal matters; and legislative hearings and documents.

TABLE OF CONTENTS

Revised Subject Categories
(Includes 1974 and 1987 revisions)

AERONAUTICS

Includes aeronautics (general); aerodynamics; air transportation and safety; aircraft communications and navigation; aircraft design, testing and performance; aircraft instrumentation; aircraft propulsion and power; aircraft stability and control; and research and support facilities (air).

For related information see also *Astronautics*.

01 AERONAUTICS (GENERAL)

02 AERODYNAMICS

Includes aerodynamics of bodies, combinations, wings, rotors, and control surfaces; and internal flow in ducts and turbomachinery.

For related information see also *34 Fluid Mechanics and Heat Transfer*.

03 AIR TRANSPORTATION AND SAFETY

Includes passenger and cargo air transport operations; and aircraft accidents.

For related information see also *16 Space Transportation* and *85 Urban Technology and Transportation*.

04 AIRCRAFT COMMUNICATIONS AND NAVIGATION

Includes digital and voice communication with aircraft; air navigation systems (satellite and ground based); and air traffic control.

For related information see also *17 Space Communications*, *Spacecraft Communications*, *Command and Tracking* and *32 Communications and Radar*.

05 AIRCRAFT DESIGN, TESTING AND PERFORMANCE

Includes aircraft simulation technology.

For related information see also *18 Spacecraft Design, Testing and Performance* and *39 Structural Mechanics*. For land transportation vehicles see *85 Urban Technology and Transportation*.

06 AIRCRAFT INSTRUMENTATION

Includes cockpit and cabin display devices; and flight instruments.

For related information see also *19 Spacecraft Instrumentation* and *35 Instrumentation and Photography*.

07 AIRCRAFT PROPULSION AND POWER

Includes prime propulsion systems and systems components, e.g., gas turbine engines and compressors; and onboard auxiliary power plants for aircraft.

For related information see also *20 Spacecraft Propulsion and Power*, *28 Propellants and Fuels*, and *44 Energy Production and Conversion*.

08 AIRCRAFT STABILITY AND CONTROL

Includes aircraft handling qualities; piloting; flight controls; and autopilots.

For related information see also *05 Aircraft Design, Testing and Performance*.

09 RESEARCH AND SUPPORT FACILITIES (AIR)

Includes airports, hangars and runways; aircraft repair and overhaul facilities; wind tunnels; shock tubes; and aircraft engine test stands.

For related information see also *14 Ground Support Systems and Facilities (Space)*.

ASTRONAUTICS

Includes astronautics (general); astrodynamics; ground support systems and facilities (space); launch vehicles and space vehicles; space transportation; space communications, spacecraft communications, command and tracking; spacecraft design, testing and performance; spacecraft instrumentation; and spacecraft propulsion and power.

For related information see also *Aeronautics*.

12 ASTRONAUTICS (GENERAL)

For extraterrestrial exploration see *91 Lunar and Planetary Exploration*.

13 ASTRODYNAMICS

Includes powered and free-flight trajectories; and orbital and launching dynamics.

14 GROUND SUPPORT SYSTEMS AND FACILITIES (SPACE)

Includes launch complexes, research and production facilities; ground support equipment, e.g., mobile transporters; and simulators.

For related information see also *09 Research and Support Facilities (Air)*.

15 LAUNCH VEHICLES AND SPACE VEHICLES

Includes boosters; operating problems of launch/space vehicle systems; and reusable vehicles.

For related information see also *20 Spacecraft Propulsion and Power*.

16 SPACE TRANSPORTATION

Includes passenger and cargo space transportation, e.g., shuttle operations; and space rescue techniques.

For related information see also *03 Air Transportation and Safety* and *18 Spacecraft Design, Testing and Performance*. For space suits see *54 Man/System Technology and Life Support*.

17 SPACE COMMUNICATIONS, SPACECRAFT COMMUNICATIONS, COMMAND AND TRACKING

Includes telemetry; space communications networks; astronavigation and guidance; and radio blackout.

For related information see also *04 Aircraft Communications and Navigation* and *32 Communications and Radar*.

18 SPACECRAFT DESIGN, TESTING AND PERFORMANCE

Includes satellites; space platforms; space stations; spacecraft systems and components such as thermal and environmental controls; and attitude controls.

For life support systems see *54 Man/System Technology and Life Support*. For related information see also *05 Aircraft Design, Testing and Performance*, *39 Structural Mechanics*, and *16 Space Transportation*.

19 SPACECRAFT INSTRUMENTATION

For related information see also *06 Aircraft Instrumentation* and *35 Instrumentation and Photography*.

20 SPACECRAFT PROPULSION AND POWER

Includes main propulsion systems and components, e.g. rocket engines; and spacecraft auxiliary power sources.

For related information see also *07 Aircraft Propulsion and Power*, *28 Propellants and Fuels*, *44 Energy Production and Conversion*, and *15 Launch Vehicles and Space Vehicles*.

CHEMISTRY AND MATERIALS

Includes chemistry and materials (general); composite materials; inorganic and physical chemistry; metallic materials; nonmetallic materials; propellants and fuels; and materials processing.

23 CHEMISTRY AND MATERIALS (GENERAL)

24 COMPOSITE MATERIALS

Includes physical, chemical, and mechanical properties of laminates and other composite materials.

For ceramic materials see *27 Nonmetallic Materials*.

25 INORGANIC AND PHYSICAL CHEMISTRY

Includes chemical analysis, e.g., chromatography; combustion theory; electrochemistry; and photochemistry.

For related information see also *77 Thermodynamics and Statistical Physics*.

26 METALLIC MATERIALS

Includes physical, chemical, and mechanical properties of metals, e.g., corrosion; and metallurgy.

27 NONMETALLIC MATERIALS

Includes physical, chemical, and mechanical properties of plastics, elastomers, lubricants, polymers, textiles, adhesives, and ceramic materials.

For composite materials see *24 Composite Materials*.

28 PROPELLANTS AND FUELS

Includes rocket propellants, igniters and oxidizers; their storage and handling procedures; and aircraft fuels.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *44 Energy Production and Conversion*.

29 MATERIALS PROCESSING

Includes space-based development of products and processes for commercial application.

For biological materials see *55 Space Biology*.

ENGINEERING

Includes engineering (general); communications and radar; electronics and electrical engineering; fluid mechanics and heat transfer; instrumentation and photography; lasers and masers; mechanical engineering; quality assurance and reliability; and structural mechanics.

For related information see also *Physics*.

31 ENGINEERING (GENERAL)

Includes vacuum technology; control engineering; display engineering; cryogenics; and fire prevention.

32 COMMUNICATIONS AND RADAR

Includes radar; land and global communications; communications theory; and optical communications.

For related information see also *04 Aircraft Communications and Navigation* and *17 Space Communications, Spacecraft Communications, Command and Tracking*. For search and rescue see *03 Air Transportation and Safety*, and *16 Space Transportation*.

33 ELECTRONICS AND ELECTRICAL ENGINEERING

Includes test equipment and maintainability; components, e.g., tunnel diodes and transistors; microminiaturization; and integrated circuitry.

For related information see also *60 Computer Operations and Hardware* and *76 Solid-State Physics*.

34 FLUID MECHANICS AND HEAT TRANSFER

Includes boundary layers; hydrodynamics; fluidics; mass transfer and ablation cooling.

For related information see also *02 Aerodynamics* and *77 Thermodynamics and Statistical Physics*.

35 INSTRUMENTATION AND PHOTOGRAPHY

Includes remote sensors; measuring instruments and gauges; detectors; cameras and photographic supplies; and holography.

For aerial photography see *43 Earth Resources and Remote Sensing*. For related information see also *06 Aircraft Instrumentation* and *19 Spacecraft Instrumentation*.

36 LASERS AND MASERS

Includes parametric amplifiers.

For related information see also *76 Solid-State Physics*.

37 MECHANICAL ENGINEERING

Includes auxiliary systems (nonpower); machine elements and processes; and mechanical equipment.

38 QUALITY ASSURANCE AND RELIABILITY

Includes product sampling procedures and techniques; and quality control.

39 STRUCTURAL MECHANICS

Includes structural element design and weight analysis; fatigue; and thermal stress.

For applications see *05 Aircraft Design, Testing and Performance* and *18 Spacecraft Design, Testing and Performance*.

GEOSCIENCES

Includes geosciences (general); earth resources and remote sensing; energy production and conversion; environment pollution; geophysics; meteorology and climatology; and oceanography.

For related information see also *Space Sciences*.

42 GEOSCIENCES (GENERAL)

43 EARTH RESOURCES AND REMOTE SENSING

Includes remote sensing of earth resources by aircraft and spacecraft; photogrammetry; and aerial photography.

For instrumentation see *35 Instrumentation and Photography*.

44 ENERGY PRODUCTION AND CONVERSION

Includes specific energy conversion systems, e.g., fuel cells; global sources of energy; geophysical conversion; and windpower.

For related information see also *07 Aircraft Propulsion and Power*, *20 Spacecraft Propulsion and Power*, and *28 Propellants and Fuels*.

45 ENVIRONMENT POLLUTION

Includes atmospheric, noise, thermal, and water pollution.

46 GEOPHYSICS

Includes aeronomy; upper and lower atmosphere studies; ionospheric and magnetospheric physics; and geomagnetism.

For space radiation see *93 Space Radiation*.

47 METEOROLOGY AND CLIMATOLOGY

Includes weather forecasting and modification.

48 OCEANOGRAPHY

Includes biological, dynamic, and physical oceanography; and marine resources.

For related information see also *43 Earth Resources and Remote Sensing*.

LIFE SCIENCES

Includes life sciences (general); aerospace medicine; behavioral sciences; man/system technology and life support; and space biology.

51 LIFE SCIENCES (GENERAL)

52 AEROSPACE MEDICINE

Includes physiological factors; biological effects of radiation; and effects of weightlessness on man and animals.

53 BEHAVIORAL SCIENCES

Includes psychological factors; individual and group behavior; crew training and evaluation; and psychiatric research.

54 MAN/SYSTEM TECHNOLOGY AND LIFE SUPPORT

Includes human engineering; biotechnology; and space suits and protective clothing.

For related information see also *16 Space Transportation*.

55 SPACE BIOLOGY

Includes exobiology; planetary biology; and extraterrestrial life.

MATHEMATICAL AND COMPUTER SCIENCES

Includes mathematical and computer sciences (general); computer operations and hardware; computer programming and software; computer systems; cybernetics; numerical analysis; statistics and probability; systems analysis; and theoretical mathematics.

59 MATHEMATICAL AND COMPUTER SCIENCES (GENERAL)

60 COMPUTER OPERATIONS AND HARDWARE

Includes hardware for computer graphics, firmware, and data processing.

For components see *33 Electronics and Electrical Engineering*.

61 COMPUTER PROGRAMMING AND SOFTWARE

Includes computer programs, routines, algorithms, and specific applications, e.g., CAD/CAM.

62 COMPUTER SYSTEMS

Includes computer networks and special application computer systems.

63 CYBERNETICS

Includes feedback and control theory, artificial intelligence, robotics and expert systems.

For related information see also *54 Man/System Technology and Life Support*.

64 NUMERICAL ANALYSIS

Includes iteration, difference equations, and numerical approximation.

65 STATISTICS AND PROBABILITY

Includes data sampling and smoothing; Monte Carlo method; and stochastic processes.

66 SYSTEMS ANALYSIS

Includes mathematical modeling; network analysis; and operations research.

67 THEORETICAL MATHEMATICS

Includes topology and number theory.

PHYSICS

Includes physics (general); acoustics; atomic and molecular physics; nuclear and high-energy physics; optics; plasma physics; solid-state physics; and thermodynamics and statistical physics.

For related information see also *Engineering*.

70 PHYSICS (GENERAL)

For precision time and time interval (PTTI) see *35 Instrumentation and Photography*; for geophysics, astrophysics or solar physics see *46 Geophysics*, *90 Astrophysics*, or *92 Solar Physics*.

71 ACOUSTICS

Includes sound generation, transmission, and attenuation.

For noise pollution see *45 Environment Pollution*.

72 ATOMIC AND MOLECULAR PHYSICS

Includes atomic structure, electron properties, and molecular spectra.

73 NUCLEAR AND HIGH-ENERGY PHYSICS

Includes elementary and nuclear particles; and reactor theory.

For space radiation see *93 Space Radiation*.

74 OPTICS

Includes light phenomena and optical devices.

For lasers see *36 Lasers and Masers*.

75 PLASMA PHYSICS

Includes magnetohydrodynamics and plasma fusion.

For ionospheric plasmas see *46 Geophysics*. For space plasmas see *90 Astrophysics*.

76 SOLID-STATE PHYSICS

Includes superconductivity.

For related information see also *33 Electronics and Electrical Engineering* and *36 Lasers and Masers*.

77 THERMODYNAMICS AND STATISTICAL PHYSICS

Includes quantum mechanics; theoretical physics; and Bose and Fermi statistics.

For related information see also *25 Inorganic and Physical Chemistry* and *34 Fluid Mechanics and Heat Transfer*.

SOCIAL SCIENCES

Includes social sciences (general); administration and management; documentation and information science; economics and cost analysis; law, political science, and space policy; and urban technology and transportation.

80 SOCIAL SCIENCES (GENERAL)

Includes educational matters.

81 ADMINISTRATION AND MANAGEMENT

Includes management planning and research.

82 DOCUMENTATION AND INFORMATION SCIENCE

Includes information management; information storage and retrieval technology; technical writing; graphic arts; and micrography.

For computer documentation see *61 Computer Programming and Software*.

83 ECONOMICS AND COST ANALYSIS

Includes cost effectiveness studies.

84 LAW, POLITICAL SCIENCE AND SPACE POLICY

Includes NASA appropriation hearings; aviation law; space law and policy; international law; international cooperation; and patent policy.

85 URBAN TECHNOLOGY AND TRANSPORTATION

Includes applications of space technology to urban problems; technology transfer; technology assessment; and surface and mass transportation.

For related information see *03 Air Transportation and Safety*, *16 Space Transportation*, and *44 Energy Production and Conversion*.

SPACE SCIENCES

Includes space sciences (general); astronomy; astrophysics; lunar and planetary exploration; solar physics; and space radiation.

For related information see also *Geosciences*.

88 SPACE SCIENCES (GENERAL)

89 ASTRONOMY

Includes radio, gamma-ray, and infrared astronomy; and astrometry.

90 ASTROPHYSICS

Includes cosmology; celestial mechanics; space plasmas; and interstellar and interplanetary gases and dust.

For related information see also *75 Plasma Physics*.

91 LUNAR AND PLANETARY EXPLORATION

Includes planetology; and manned and unmanned flights.

For spacecraft design or space stations see *18 Spacecraft Design, Testing and Performance*.

92 SOLAR PHYSICS

Includes solar activity, solar flares, solar radiation and sunspots.

For related information see *93 Space Radiation*.

93 SPACE RADIATION

Includes cosmic radiation; and inner and outer earth's radiation belts.

For biological effects of radiation see *52 Aerospace Medicine*. For theory see *73 Nuclear and High-Energy Physics*.

GENERAL

Includes aeronautical, astronautical, and space science related histories, biographies, and pertinent reports too broad for categorization; histories or broad overviews of NASA programs.

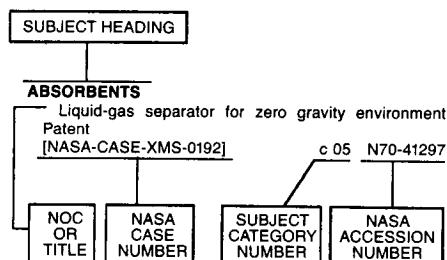
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Typical Subject Index Listing



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A

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[NASA-CASE-ARC-11039-1] c 74 N78-32854
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[NASA-CASE-XMS-01492] c 05 N70-41297
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[NASA-CASE-XLE-00703] c 15 N71-15967
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Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
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[NASA-CASE-LAR-10180-1] c 06 N71-13461
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[NASA-CASE-XMF-04208] c 33 N71-29051
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[NASA-CASE-NPO-16000-1] c 36 N85-29264

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[NASA-CASE-LAR-10907-1] c 35 N76-29551
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[NASA-CASE-LEW-14037-1] c 20 N87-16875

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[NASA-CASE-XNP-05612] c 09 N69-21468
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[NASA-CASE-XLE-02823] c 09 N71-23443
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[NASA-CASE-MFS-25302-2] c 33 N84-33660

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[NASA-CASE-XMF-00424] c 11 N70-38196
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[NASA-CASE-XNP-02595] c 31 N71-21881
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
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[NASA-CASE-LAR-10550-1] c 09 N74-30597
G-load measuring and indicator apparatus
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[NASA-CASE-NPO-10556] c 14 N71-27185

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Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
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[NASA-CASE-ARC-10898-1] c 35 N77-18417

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[NASA-CASE-XMF-01099] c 14 N71-15969
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347

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- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395

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- III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

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- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N89-29955

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- CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

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- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
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[NASA-CASE-ARC-11426-2] c 52 N89-16256

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- Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Method for fabricating solar cells having integrated collector grits
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Urine collection device
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- Urine collection apparatus --- feminine hygiene
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[NASA-CASE-ARC-11031-1] c 52 N81-29763
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[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489

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- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243

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- Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

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- Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
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- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
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- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
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[NASA-CASE-LAR-13118-2] c 27 N87-16907

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- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710

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- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

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- Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

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- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

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- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

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[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
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- Vibrating-chamber levitation systems
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- Containerless high purity pulling process and apparatus for glass fiber
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- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
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- Single mode levitation and translation
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- System for monitoring physical characteristics of fluids
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- Acoustical transducer calibrating system and apparatus
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- Acoustic rotation control
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[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
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- Method of carbonizing polyacrylonitrile fibers
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- Sewage sludge additive
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- Heat activated cell Patent
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- Cryogenic gyroscope housing --- with annular disks for gas spin-up
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- Electromechanical actuator
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[NASA-CASE-XNP-09776] c 09 N69-39929
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- Controllers Patent
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- Mechanical actuator Patent
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[NASA-CASE-ARC-10131-1] c 15 N71-27754
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- Mechanically actuated triggered hand
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[NASA-CASE-MSC-20112-1] c 37 N85-20338

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Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227

ADAPTIVE FILTERS
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986

Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

ADAPTIVE OPTICS
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

ADDING CIRCUITS
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843

ADDITION RESINS

Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229

ADDITIONS

Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090

Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

ADDRESSING

Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

ADENOSINE TRIPHOSPHATE

Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355

Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705

Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011

Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ADHESION

Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209

Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371

ADHESION TESTS

Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

ADHESIVE BONDING

Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895

Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651

Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992

Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355

Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221

Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077

Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125

High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561

Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108

ADHESIVES

Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263

AERODYNAMIC CONFIGURATIONS

Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205

Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158

Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240

Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349

Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692

ADJUSTING
Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898

Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386

Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982

AERIAL RUDDERS
Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

AEROACOUSTICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

AERODYNAMIC BALANCE
Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999

AERODYNAMIC BRAKES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034

AERODYNAMIC CHARACTERISTICS
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266

Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999

Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094

AERODYNAMIC CONFIGURATIONS
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043

Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257

Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226

Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628
- AERODYNAMIC DRAG**
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- AERODYNAMIC HEATING**
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- AERODYNAMIC INTERFERENCE**
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- AERODYNAMIC LOADS**
Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- AERODYNAMIC NOISE**
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
- AERODYNAMIC STABILITY**
Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628
- AERODYNAMIC STALLING**
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- AEROELASTICITY**
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- AERONAUTICAL ENGINEERING**
Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- AEROSOLS**
Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- AEROSPACE ENGINEERING**
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- AEROSPACE ENVIRONMENTS**
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804
Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
- AEROSPACE MEDICINE**
Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- AEROSPACE PLANES**
Multispace aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- AEROSPACE VEHICLES**
Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
- AFTERBODIES**
Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- AFTERBURNING**
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- AGGLOMERATION**
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- AGING (MATERIALS)**
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- AGRICULTURE**
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- AILERONS**
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- AIR**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595
- AIR BREATHING ENGINES**
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- AIR CONDITIONING**
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- AIR CONDITIONING EQUIPMENT**
Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
- AIR COOLING**
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
- AIR FILTERS**
Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- AIR FLOW**
Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
Air conditioning system and component therefore distributing air flow from opposite directions
[NASA-CASE-GSC-11445-1] c 31 N74-27902
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR INTAKES**
Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- AIR LOCKS**
Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
- AIR NAVIGATION**
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- AIR POLLUTION**
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-12321-1] c 45 N75-27585
- Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
- A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967
- AIR PURIFICATION**
- High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
- AIR QUALITY**
- Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- AIR SAMPLING**
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- AIR START**
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- AIR TRAFFIC CONTROL**
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- AIR TRANSPORTATION**
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- AIRBORNE EQUIPMENT**
- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- AIRBORNE/SPACEBORNE COMPUTERS**
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
- AIRCRAFT**
- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
- Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- AIRCRAFT ACCIDENTS**
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- AIRCRAFT ANTENNAS**
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- AIRCRAFT COMPARTMENTS**
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- AIRCRAFT CONFIGURATIONS**
- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628
- AIRCRAFT CONSTRUCTION MATERIALS**
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- AIRCRAFT CONTROL**
- Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
- Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Airplane automatic control force trimming device for asymmetric engine failures
[NASA-CASE-LAR-13280-1] c 08 N87-20999
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628
- High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
- AIRCRAFT DESIGN**
- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
- Multi-stage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907
- High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- AIRCRAFT DETECTION**
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
- AIRCRAFT ENGINES**
- Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- AIRCRAFT EQUIPMENT**
- Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
- Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
- AIRCRAFT FUEL SYSTEMS**
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- AIRCRAFT GUIDANCE**
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
- AIRCRAFT HAZARDS**
- Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
- AIRCRAFT HYDRAULIC SYSTEMS**
- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
- Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738
- AIRCRAFT INSTRUMENTS**
- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Combined optical altitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- AIRCRAFT LANDING**
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
- Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- AIRCRAFT LAUNCHING DEVICES**
- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

AIRCRAFT MANEUVERS

AIRCRAFT MANEUVERS

G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381

AIRCRAFT MODELS

Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014

AIRCRAFT NOISE

Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

AIRCRAFT PERFORMANCE

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

AIRCRAFT PILOTS

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597

AIRCRAFT SAFETY

Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

AIRCRAFT SPIN

Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

AIRCRAFT STABILITY

Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

AIRCRAFT STRUCTURES

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650

AIRCRAFT TIRES

Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443

AIRCRAFT WAKES

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

AIRFOIL PROFILES

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

AIRFOILS

Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Surface finishing
[NASA-CASE-MS-C-12631-3] c 27 N81-14077
Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

AIRFRAMES

Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005
Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

AIRSPEED

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296
Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

ALCOHOLS

Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALDEHYDES

Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

ALGORITHMS

Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

ALIGNMENT

Instrument support with precise lateral adjustment Patent
[NASA-CASE-XMF-00480] c 14 N70-39898
Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MS-C-12559-1] c 18 N76-14186

Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
X-ray determination of parts alignment
[NASA-CASE-MS-C-20418-1] c 74 N86-20126
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Improved docking alignment system
[NASA-CASE-MS-C-21372-1] c 35 N89-12842
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MS-C-21211-1] c 18 N89-28553
Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

ALKALI HALIDES

Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALI METALS

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573
Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALKALINE BATTERIES

Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491
Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144

ALKALINE EARTH OXIDES

- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

ALKYL COMPOUNDS

- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

ALKYNES

- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

ALLOYS

- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

ALPHA PARTICLES

- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

ALPHANUMERIC CHARACTERS

- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517

ALTERNATING CURRENT

- Ac power amplifier Patent Application
[NASA-CASE-LAR-10218-1] c 09 N70-34559
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950
A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

ALTIMETERS

- Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

ALTITUDE

- Combined optical altitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

ALTITUDE CONTROL

- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925

ALUMINUM

- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828

Process for producing dispersion strengthened nickel with aluminum Patent

- [NASA-CASE-XLE-06969] c 17 N71-24142
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455
Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

ALUMINUM ALLOYS

- Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

ALUMINUM COATINGS

- Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Method of protecting the surface of a substrate --- by applying aluminide coating
[NASA-CASE-LEW-11696-1] c 37 N75-13261
Duplex aluminized coatings
[NASA-CASE-LEW-11696-2] c 26 N75-19408
Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

ALUMINUM COMPOUNDS

- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118

ALUMINUM OXIDES

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262

ALUMINUM SILICATES

- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

AMBIENT TEMPERATURE

- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

AMBIGUITY

- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

AMIDES

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078

AMINES

- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
Amine terminated bispartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Aminophenoxycyclophosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
Aromatic cyclophosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

AMINO ACIDS

- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

AMMONIA

- Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

AMMONIUM NITRATES

- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342

AMMONIUM PERCHLORATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471

AMORPHOUS MATERIALS

- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

AMPLIFICATION

- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
High voltage transistor amplifier with constant current load
[NASA-CASE-NPO-11023] c 09 N72-17155
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356

AMPLIFIER DESIGN

- Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

AMPLIFIERS

- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- AMPLITUDE DISTRIBUTION ANALYSIS**
- System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
- Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- AMPLITUDE MODULATION**
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
- Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
- Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860
- Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- AMPLITUDES**
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- AMPOULES**
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651
- ANALGESIA**
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764
- ANALOG CIRCUITS**
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058

- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- ANALOG COMPUTERS**
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- ANALOG DATA**
- Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251
- Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- ANALOG SIMULATION**
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- ANALOG TO DIGITAL CONVERTERS**
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
- Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200
- Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
- Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045
- Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701
- Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
- A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492
- ANALYZERS**
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

ANCHORS (FASTENERS)

- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- ANECHOIC CHAMBERS**
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- ANEMOMETERS**
- Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
- Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
- Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
- Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
- ANGIOGRAPHY**
- Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
- ANGLE OF ATTACK**
- Angle detector
[NASA-CASE-ARC-11036-1] c 35 N78-32395
- Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
- ANGLES (GEOMETRY)**
- Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
- ANGULAR ACCELERATION**
- Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682
- ANGULAR CORRELATION**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- ANGULAR DISTRIBUTION**
- Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
- ANGULAR MOMENTUM**
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
- ANGULAR RESOLUTION**
- Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
- ANGULAR VELOCITY**
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- ANHYDRIDES**
- Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Novel polyimide compositions based on 4,4': Isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- ANILINE**
- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- ANIMALS**
- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ANISOTROPIC MEDIA

Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188

ANNEALING

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
CDS solid state phase insensitive ultrasonic transducer --- annealing dadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ANNULAR NOZZLES

Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

ANNULAR PLATES

Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

ANNULI

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

ANODES

Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-XLE-11358] c 03 N71-26084
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ANODIC COATINGS

Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

ANOMALIES

Aircraft liftemer
[NASA-CASE-LAR-12518-1] c 06 N86-27280

ANTENNA ARRAYS

Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MS-C-12205-1] c 07 N71-27056
Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Amplitude steered array
[NASA-CASE-GSC-11446-1] c 33 N74-20860

Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-26594
Phased array antenna control
[NASA-CASE-MS-C-14939-1] c 32 N79-11264
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187
Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MS-C-18606-1] c 32 N82-11336
Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA COMPONENTS

Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNA COUPLERS

Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ANTENNA DESIGN

Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MS-C-12205-1] c 07 N71-27056
Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MS-C-18334-1] c 32 N80-32604
Spiral slotted phased antenna array
[NASA-CASE-MS-C-18532-1] c 32 N82-27558
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
Switched steerable multiple beam antenna system
[NASA-CASE-MS-C-20873-1-SB] c 32 N89-11961

ANTENNA FEEDS

Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235

Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863
Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

ANTENNA RADIATION PATTERNS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809
Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Coaxial phased array antenna
[NASA-CASE-MS-C-16800-1] c 32 N81-14187
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

ANTENNAS

Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

ANTIBIOTICS

Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

ANTIFRICTION BEARINGS

Hybrid lubrication system and bearing Patent
[NASA-CASE-NPO-01641] c 15 N71-22997
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

ANTIGRAVITY

Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

ANTIHISTAMINICS

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ANTIREFLECTION COATINGS

Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597

ANVILS

Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

APERTURES

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

APOLLO PROJECT

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

APOLLO SPACECRAFT

Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

APPLICATIONS OF MATHEMATICS

Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

APPROACH

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

AQUATIC PLANTS

Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654

AQUEOUS SOLUTIONS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

ARC DISCHARGES

Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

ARC HEATING

Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

ARC JET ENGINES

Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Arcjet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

ARC LAMPS

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540
Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

ARC SPRAYING

Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

ARC WELDING

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Device for preventing high voltage arcing in electron beam welding Patent
[NASA-CASE-XMF-08522] c 15 N71-19486
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

ARCHITECTURE

Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

ARCHITECTURE (COMPUTERS)

Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Nanosequence digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310

ARGON

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

ARM (ANATOMY)

Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551

ARMATURES

Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

AROMATIC COMPOUNDS

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

ARRAYS

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

ARTERIES

Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391

ARTIFICIAL CLOUDS

Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097

ARTIFICIAL GRAVITY

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

ARTIFICIAL SATELLITES

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

ASBESTOS

Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MSC-12568-1] c 24 N76-14204

ASHES

Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814

ASPECT RATIO

Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011

ASPHALT

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228

ASSAYING

Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569

ASSEMBLIES

Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
Bearing seal usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

ASSEMBLING

Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866

ASSEMBLY

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

ASSOCIATIVE PROCESSING (COMPUTERS)

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

ASTRONAUT LOCOMOTION

Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651
- ASTRONAUT MANEUVERING EQUIPMENT**
- Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- ASTRONAUT PERFORMANCE**
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
- Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
- ASTRONAUT TRAINING**
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474
- ASTRONAUTS**
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Bi-stern gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- ASTRONAVIGATION**
- Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
- ASTRONOMICAL PHOTOGRAPHY**
- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- ASYMMETRY**
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- ATMOSPHERIC COMPOSITION**
- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383
- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- ATMOSPHERIC DENSITY**
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- ATMOSPHERIC ENTRY**
- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
- ATMOSPHERIC ENTRY SIMULATION**
- Plasma accelerator Patent
[NASA-CASE-XLA-00675] c 25 N70-33267
- Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
- ATMOSPHERIC MOISTURE**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- ATMOSPHERIC PHYSICS**
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- ATMOSPHERIC PRESSURE**
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- ATMOSPHERIC RADIATION**
- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432
- ATMOSPHERIC REFRACTION**
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
- ATMOSPHERIC SCATTERING**
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028
- ATMOSPHERIC SOUNDING**
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
- ATMOSPHERIC TEMPERATURE**
- System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- ATMOSPHERIC TURBULENCE**
- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
- Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
- ATOMIC BEAMS**
- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661
- ATOMIC EXCITATIONS**
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- ATOMIC STRUCTURE**
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- ATOMIZERS**
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- ATS**
- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- ATTACHMENT**
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- ATTENUATORS**
- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- ATTITUDE (INCLINATION)**
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- ATTITUDE CONTROL**
- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938
- Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
- Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
- Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- Voice operated controller Patent
[NASA-CASE-XLA-04063] c 31 N71-33160
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808
- ATTITUDE GYROS**
- Space vehicle attitude control Patent
[NASA-CASE-NXP-00465] c 21 N70-35395
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- ATTITUDE INDICATORS**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Head-up attitude display
[NASA-CASE-ERC-10392] c 21 N73-14692
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- ATTITUDE STABILITY**
- Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
- AUDIO EQUIPMENT**
- Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
- AUDIO FREQUENCIES**
- Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408

AUDIO SIGNALS

AUDIO SIGNALS

Method and apparatus for operating on companded PCM voice data

[NASA-CASE-KSC-11285-1] c 32 N86-27513

AUDITORY DEFECTS

Hearing aid malfunction detection system

[NASA-CASE-MSC-14916-1] c 33 N78-10375

AUDITORY PERCEPTION

Auditory display for the blind

[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUDITORY SIGNALS

Audio signal processor Patent

[NASA-CASE-MSC-12223-1] c 07 N71-26181

Audio system with means for reducing noise effects

[NASA-CASE-NPO-11631] c 10 N73-12244

AUDITORY STIMULI

Auditory display for the blind

[NASA-CASE-HQN-10832-1] c 71 N74-21014

AUGER EFFECT

Apparatus for accurately preloading auger attachment means for frangible protective material

[NASA-CASE-MSC-18791-1] c 37 N83-36482

AUSTENITIC STAINLESS STEELS

Nickel aluminide coated low alloy stainless steel

[NASA-CASE-LEW-11267-1] c 17 N73-32414

Device for measuring the ferrite content in an austenitic stainless-steel weld

[NASA-CASE-MFS-22907-1] c 26 N76-18257

AUTOCLAVES

System for sterilizing objects --- cleaning space vehicle systems

[NASA-CASE-KSC-11085-1] c 54 N81-24724

AUTOCORRELATION

Linear three-tap feedback shift register Patent

[NASA-CASE-NPO-10351] c 08 N71-12503

Correlation function apparatus Patent

[NASA-CASE-XNP-00746] c 07 N71-21476

AUTOMATIC CONTROL

Bus voltage compensation circuit for controlling direct current motor

[NASA-CASE-XMS-04215-1] c 09 N69-39987

Optical alignment system Patent

[NASA-CASE-XNP-02029] c 14 N70-41955

Pulsed energy power system Patent

[NASA-CASE-MSC-13112] c 03 N71-11057

Automatic balancing device Patent

[NASA-CASE-LAR-10774] c 10 N71-13545

Apparatus for welding torch angle and seam tracking control Patent

[NASA-CASE-XMF-03287] c 15 N71-15607

Leak detector Patent

[NASA-CASE-LAR-10323-1] c 12 N71-17573

Solar optical telescope dome control system Patent

[NASA-CASE-MSC-10966] c 14 N71-19568

Automatic welding speed controller Patent

[NASA-CASE-XMF-01730] c 15 N71-23050

Indexing microwave switch Patent

[NASA-CASE-XNP-06507] c 09 N71-23548

Automatic pump Patent

[NASA-CASE-XNP-04731] c 15 N71-24042

Automatic fatigue test temperature programmer Patent

[NASA-CASE-XLA-02059] c 33 N71-24276

Automatic battery charger Patent

[NASA-CASE-XNP-04758] c 03 N71-24605

Transistor servo system including a unique differential amplifier circuit Patent

[NASA-CASE-XMF-05195] c 10 N71-24861

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent

[NASA-CASE-NPO-10625] c 09 N71-26182

Automatic signal range selector for metering devices Patent

[NASA-CASE-XMS-06497] c 14 N71-26244

Automated fluid chemical analyzer Patent

[NASA-CASE-XNP-09451] c 06 N71-26754

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures

[NASA-CASE-MSC-13917-1] c 05 N72-15098

Optimal control system for an electric motor driven vehicle

[NASA-CASE-NPO-11210] c 11 N72-20244

Automated equipotential plotter

[NASA-CASE-NPO-11134] c 09 N72-21246

Ion thruster magnetic field control

[NASA-CASE-LEW-10835-1] c 28 N72-22771

Temperature controller for a fluid cooled garment

[NASA-CASE-ARC-10599-1] c 05 N73-26071

Redundant speed control for brushless Hall effect motor

[NASA-CASE-MFS-20207-1] c 09 N73-32107

Programmable physiological infusion

[NASA-CASE-ARC-10447-1] c 52 N74-22771

Automatically operable self-leveling load table

[NASA-CASE-MFS-22039-1] c 09 N75-12968

Automatic focus control for facsimile cameras

[NASA-CASE-LAR-11213-1] c 35 N75-15014

Traffic survey system --- using optical scanners

[NASA-CASE-MFS-22631-1] c 66 N76-19888

Automatic visual inspection system for microelectronics

[NASA-CASE-NPO-13282] c 38 N78-17396

Automatic fluid dispenser

[NASA-CASE-ARC-10820-1] c 35 N78-19466

Method for producing solar energy panels by automation

[NASA-CASE-LEW-12541-1] c 44 N78-25529

Circuit for automatic load sharing in parallel converter modules

[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method for forming a solar array strip

[NASA-CASE-NPO-13652-3] c 44 N80-14474

Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width

[NASA-CASE-NPO-14295-1] c 76 N80-32245

Integrated control system for a gas turbine engine

[NASA-CASE-LEW-12594-2] c 07 N81-19116

Solar energy control system --- temperature measurement

[NASA-CASE-MFS-25287-1] c 44 N82-18686

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands

[NASA-CASE-LAR-12412-1] c 08 N82-24205

Automatic weld torch guidance control system

[NASA-CASE-MFS-25807] c 37 N83-20154

Automatic thermal switch --- spacecraft applications

[NASA-CASE-GSC-12553-1] c 34 N83-28356

Linear magnetic bearings

[NASA-CASE-GSC-12582-2] c 37 N85-20337

Jet pump-drive system for heat removal

[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

Automatic oscillator frequency control system

[NASA-CASE-GSC-12804-1] c 33 N86-20668

Automated weld torch guidance control system

[NASA-CASE-MFS-25807-2] c 37 N86-21850

Airplane automatic control force trimming device for asymmetric engine failures

[NASA-CASE-LAR-13280-1] c 08 N87-20999

Self indexing latch system

[NASA-CASE-MFS-25956-1] c 37 N87-21333

AUTOMATIC CONTROL VALVES

Check valve assembly for a probe Patent

[NASA-CASE-XLA-00128] c 15 N70-37925

Metal valve pinla with encapsulated elastomeric body Patent

[NASA-CASE-MSC-12116-1] c 15 N71-17648

Semitoroidal diaphragm cavitating valve Patent

[NASA-CASE-XNP-09704] c 12 N71-18615

Valving device for automatic refilling in cryogenic liquid systems

[NASA-CASE-NPO-11177] c 15 N72-17453

Combined pressure regulator and shutoff valve

[NASA-CASE-NPO-13201-1] c 37 N75-15050

Iodine generator for reclaimed water purification

[NASA-CASE-MSC-14632-1] c 54 N78-14784

Automatic compression adjusting mechanism for internal combustion engines

[NASA-CASE-MSC-18807-1] c 37 N83-36483

AUTOMATIC FREQUENCY CONTROL

Automatic acquisition system for phase-lock loop

[NASA-CASE-XGS-04994] c 09 N69-21543

Audio signal processor Patent

[NASA-CASE-MSC-12223-1] c 07 N71-26181

Automatic frequency control loop including synchronous switching circuits

[NASA-CASE-KSC-10393] c 09 N72-21247

Self-tuning bandpass filter

[NASA-CASE-ARC-10264-1] c 09 N73-20231

Programmable electronic synthesized capacitance

[NASA-CASE-GSC-12961-1] c 33 N87-22895

Frequency domain laser velocimeter signal processor

[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC GAIN CONTROL

Automatic gain control system

[NASA-CASE-XMS-05307] c 09 N69-24330

Amplifier drift tester

[NASA-CASE-XMS-05562-1] c 09 N69-39986

Self-tuning bandpass filter

[NASA-CASE-ARC-10264-1] c 09 N73-20231

Digital automatic gain amplifier

[NASA-CASE-KSC-11008-1] c 33 N79-22373

Automatic level control circuit

[NASA-CASE-KSC-11170-1] c 33 N83-36356

Frequency domain laser velocimeter signal processor

[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

AUTOMATIC TEST EQUIPMENT

Visual examination apparatus

[NASA-CASE-ARC-10329-1] c 05 N73-26072

Automatic microbial transfer device

[NASA-CASE-LAR-11354-1] c 35 N75-27330

Visual examination apparatus

[US-PATENT-RE-28,921] c 52 N76-30793

Automated clinical system for chromosome analysis

[NASA-CASE-NPO-13913-1] c 52 N79-12694

Automatic flowmeter calibration system

[NASA-CASE-KSC-11076-1] c 34 N81-26402

Pressure suit joint analyzer

[NASA-CASE-ARC-11314-1] c 54 N82-26987

AUTOMATION

Automated multi-level vehicle parking system

[NASA-CASE-NPO-13058-1] c 37 N77-22480

AUTOMOBILE ENGINES

Automotive gas turbine fuel control

[NASA-CASE-LEW-12785-1] c 37 N78-24545

Controller for computer control of brushless dc motors --- automobile engines

[NASA-CASE-NPO-13970-1] c 33 N81-20352

AUTOMOBILE FUELS

Hydrogen rich gas generator

[NASA-CASE-NPO-13342-2] c 44 N76-29700

AUTONOMOUS NAVIGATION

Autonomous navigation system --- gyroscopic pendulum for air navigation

[NASA-CASE-ARC-11257-1] c 04 N81-21047

AUXILIARY POWER SOURCES

Independent power generator

[NASA-CASE-LAR-11208-1] c 44 N78-32539

Electrical power generating system

[NASA-CASE-MFS-25302-1] c 33 N83-28319

AVERAGE

Method of and apparatus for generating an interstitial point in a data stream having an even number of data points

[NASA-CASE-MFS-25319-1] c 60 N85-33701

AVIONICS

Aircraft control position indicator

[NASA-CASE-LAR-12984-1] c 06 N87-22678

AXES (REFERENCE LINES)

Moment of inertia test fixture Patent

[NASA-CASE-XGS-01023] c 14 N71-22992

Universal restrainer and joint Patent

[NASA-CASE-XNP-02278] c 15 N71-28951

Focal axis resolver for offset reflector antennas

[NASA-CASE-GSC-12630-1] c 33 N83-36355

AXES OF ROTATION

Three axis controller Patent

[NASA-CASE-XFR-00181] c 21 N70-33279

Proportional controller Patent

[NASA-CASE-XAC-03392] c 03 N70-41954

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent

[NASA-CASE-XMF-00684] c 21 N71-21688

Controllers Patent

[NASA-CASE-XMS-07487] c 15 N71-23255

Aircraft body-axis rotation measurement system

[NASA-CASE-FRC-11043-1] c 06 N83-33882

Centrifugal-reciprocating compressor

[NASA-CASE-NPO-14597-2] c 37 N84-28081

Shoulder and hip joint for hard space suits

[NASA-CASE-ARC-11543-1] c 54 N86-28620

AXIAL COMPRESSION LOADS

Impact monitoring apparatus

[NASA-CASE-MSC-15626-1] c 14 N72-25411

Compression test apparatus

[NASA-CASE-MSC-18723-1] c 35 N83-21312

AXIAL FLOW

Monogroove heat pipe design: Insulated liquid channel with bridging wick

[NASA-CASE-MSC-20497-1] c 34 N85-29180

Wingtip vortex propeller

[NASA-CASE-LAR-13019-1] c 07 N85-35194

AXIAL FLOW PUMPS

Dual motion valve with single motion input

[NASA-CASE-MFS-28058-1] c 37 N87-21332

Rotor self-lubricating axial stop

[NASA-CASE-MFS-28273-1] c 37 N88-23974

AXIAL FLOW TURBINES

- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- AZIMUTH**
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
- AZINES**
Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Perfluoroalkyl polytriazines containing pendent iodo difluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- AZO COMPOUNDS**
Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- AZOLES**
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
- B**
- BACK INJURIES**
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- BACKGROUND NOISE**
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- BACKGROUND RADIATION**
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
- BACKSCATTERING**
Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
- BACKUPS**
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- BACKWARD WAVES**
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
- BACTERIA**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BACTERIOLOGY**
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- BAFFLES**
Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
System for the measurement of ultra-low straylight levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
- BAGS**
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749
- BAKING**
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
- BALANCE**
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
- BALANCING**
Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- BALL BEARINGS**
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445
- BALLAST**
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- BALLAST (MASS)**
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- BALLASTS (IMPEDANCES)**
Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- BALLISTICS**
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
- BALLOON SOUNDING**
Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039

- BALLOONS**
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- BALLS**
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- BANDPASS FILTERS**
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
Adaptive polarization separation
[NASA-CASE-LAR-12196-1] c 33 N81-26358
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
- BANDWIDTH**
Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
- BARIUM**
Barium release system
[NASA-CASE-LAR-10670-1] c 06 N73-30097
- BARIUM COMPOUNDS**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- BARIUM FLUORIDES**
Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- BARIUM ION CLOUDS**
Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- BARIUM TITANATES**
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- BARRIER LAYERS**
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- BARRIERS**
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- BARS**
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303
- BASES (CHEMICAL)**
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- BATTERY CHARGERS**
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438

Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491

Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719

Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531

BAYARD-ALPERT IONIZATION GAGES

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

BAYS (STRUCTURAL UNITS)

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

BEADS

Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BEAM LEADS

Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951

BEAM SPLITTERS

Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395

Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848

Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305

Dual-beam skin friction interferometer
[NASA-CASE-ARC-1-354-1] c 74 N83-21949

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

BEAM SWITCHING

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233

Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516

Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

BEAM WAVEGUIDES

Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135

Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183

Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287

Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

BEAMS (RADIATION)

Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154

Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695

Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510

Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578

Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Sidelooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960

BEAMS (SUPPORTS)

Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259

Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479

Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605

Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413

Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979

Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398

BEARING

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

BEARING (DIRECTION)

Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655

Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

BEARINGS

Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810

Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537

Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574

Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464

Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

Antenna groud replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323

Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

Portable 90 degree proof loading device
[NASA-CASE-MS-C-20250-1] c 35 N86-19581

BEDS (PROCESS ENGINEERING)

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901

Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428

BEER LAW

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

BEES

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499

BELLOWS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

BELTS

Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

BENDING

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679

Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408

BENDING DIAGRAMS

Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095

BENDING FATIGUE

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659

BENDING MOMENTS

Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

BENDING VIBRATION

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

BENZENE

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Polymer of phosphonomethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

BERYLLIUM ALLOYS

Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

BERYLLIUM HYDRIDES

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

BERYLLIUM OXIDES

High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373

High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

BIDIRECTIONAL REFLECTANCE

A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253

BIMETALS

Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313

Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409

Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260

Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

BINARY CODES

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- BINARY DATA**
Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- BINARY DIGITS**
Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778
Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787
Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850
- BINARY FLUIDS**
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- BINARY TO DECIMAL CONVERTERS**
Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
- BINDERS (MATERIALS)**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- BINOCLULARS**
Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- BIOASSAY**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694
Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750
Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714
- BIODEGRADATION**
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- BIODYNAMICS**
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
- BIOELECTRIC POTENTIAL**
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- BIOELECTRICITY**
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- BIOENGINEERING**
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- BIOINSTRUMENTATION**
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
- BIOLOGICAL EFFECTS**
Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- BIO LUMINESCENCE**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- BIOMEDICAL DATA**
Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- BIOMETRICS**
Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346
Compressible biomedical electrode
[NASA-CASE-MSC-13648] c 05 N72-27103
Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- BIOPROCESSING**
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- BIOREACTORS**
Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- BIOTECHNOLOGY**
Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252
- BIOTELEMETRY**
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Accelerometer telemetry system
[NASA-CASE-ARC-10849-1] c 17 N76-29347
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
- BIPOLAR TRANSISTORS**
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345

Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494

BIREFRINGENCE
Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101

BISMALEIMIDE
Amine terminated bisaspartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

BISMUTH
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

BISMUTH COMPOUNDS
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213

BISTABLE CIRCUITS
AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910

BIT SYNCHRONIZATION
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132

BITERNARY CODE
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

BITS
Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

BITUMENS
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012

BLACK BODY RADIATION
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

BLADDER
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

BLADE TIPS
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560

BLADES
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

BLADES (CUTTERS)
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

BLAST LOADS
Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

BLOOD
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
Gas diffusion liquid storage bag and method of use for storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

BLOOD FLOW
Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

BLOOD PRESSURE
Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
Arterial pulse wave pressure transducer
[NASA-CASE-GSC-11531-1] c 52 N74-27566
Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

BLOOD VESSELS
Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991

BLUFF BODIES
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939

BLUNT BODIES
Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436

BODIES OF REVOLUTION
Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

BODY FLUIDS
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771
Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891
Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605

BODY KINEMATICS
Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

BODY MEASUREMENT (BIOLOGY)
Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY TEMPERATURE
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618

BODY VOLUME (BIOLOGY)
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

BODY-WING CONFIGURATIONS
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

BOILERS
Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

BOLOMETERS
Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

BOLTED JOINTS

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
Clevish joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130

BOLTS

Gas actuated bolt disconnect Patent
[NASA-CASE-XLA-00326] c 03 N70-34667
Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967

BONDING

Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Insulation bonding test system
[NASA-CASE-MSC-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359
Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

BONES

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215

BOOMS (EQUIPMENT)

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10566-1] c 15 N72-18477
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

BOOSTER RECOVERY

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161

- A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781
- BOOSTER ROCKET ENGINES**
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582
- BOOTS (FOOTWEAR)**
Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- BOREHOLES**
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
- BORIDES**
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- BORING MACHINES**
Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- BORON**
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- BORON CARBIDES**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- BORON CHLORIDES**
Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- BORON COMPOUNDS**
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- BORON FLUORIDES**
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
- BOROSILICATE GLASS**
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- BOULES**
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- BOUNDARY LAYER CONTROL**
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- BOUNDARY LAYER FLOW**
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- BOUNDARY LAYER SEPARATION**
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Self stabilizing sonic inlet
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- BOUNDARY LAYERS**
Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

BOXES (CONTAINERS)

- Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

BRACKETS

- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

BRILLE

- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BRAKES

- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

BRAKES (FOR ARRESTING MOTION)

- Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

BRAKING

- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726

BRAZING

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

BREATHING APPARATUS

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Self-contained breathing apparatus
[NASA-CASE-MSC-14733-1] c 54 N76-24900
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799

BRICKS

- Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921

BRIDGMAN METHOD

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

BRIGHTNESS

- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

BRIGHTNESS DISCRIMINATION

- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890

BRITTLENESS

- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069

- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

BROADBAND

- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

BROADBAND AMPLIFIERS

- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

BROADCASTING

- Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

BROMINATION

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
Brominated graphite fibers and method of producing the same
[NASA-CASE-LEW-14698-1] c 24 N88-29888
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

BROMINE

- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

BROMINE COMPOUNDS

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

BRONZES

- Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

BRUSHES

- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818

BRUSHES (ELECTRICAL CONTACTS)

- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

BUBBLES

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

BUCKLING

- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323

BUFFER STORAGE

- Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255
Buffered analog converter
[NASA-CASE-KSC-10397] c 08 N72-25206
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

BUFFERS (CHEMISTRY)

Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187

BUILDINGS

Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454

BULBS

External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362

BULKHEADS

Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

BUOYANCY

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

BURNERS

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

BURNING RATE

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

BURNOUT

Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381

BURNS (INJURIES)

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

BUS CONDUCTORS

Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420

BUTANES

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BUTT JOINTS

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376

BUTTERFLY VALVES

Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443

BUTYRIC ACID

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

BYPASSES

Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

C

CABLE FORCE RECORDERS

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

CABLES

Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540

CABLES (ROPES)

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485

Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453

Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063

Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601

CADIUM SULFIDES

High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088

CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826

CALCIUM

Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

CALCIUM FLUORIDES

Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400

Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

CALCIUM OXIDES

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CALCIUM PHOSPHATES

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

CALCULATORS

Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

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Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

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Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999

Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036

Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914

Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117

Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390

System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132

In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432

High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347

Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281

Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

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Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051

Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859

Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426

CAMERA SHUTTERS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427

Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861

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Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976

Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441

On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153

Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

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Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690

CANARD CONFIGURATIONS

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086

Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

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Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

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Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737

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Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528

- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
- CANTILEVER BEAMS**
Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- CANTILEVER MEMBERS**
Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- CAPACITANCE**
Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- CAPACITANCE SWITCHES**
Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- CAPACITORS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
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[NASA-CASE-LEW-10364-1] c 09 N71-13522
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[NASA-CASE-XLA-01987] c 23 N71-23976
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716
High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- CAPILLARY FLOW**
Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- CAPILLARY TUBES**
Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-15261
- CARBAZOLES**
Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- CARBIDES**
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- CARBOHYDRATES**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- CARBON**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- CARBON ARCS**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- CARBON COMPOUNDS**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- CARBON DIOXIDE**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- CARBON DIOXIDE LASERS**
Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
Stark-effect modulation of CO₂ laser with NH₂D
[NASA-CASE-NPO-11945-1] c 36 N76-18427
- CARBON DIOXIDE REMOVAL**
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027
- CARBON FIBER REINFORCED PLASTICS**
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- CARBON FIBERS**
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
Brominated graphite fibers and method of producing the same
[NASA-CASE-LEW-14698-1] c 24 N88-29888
Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262
- CARBON MONOXIDE**
Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-11823
- CARBON-CARBON COMPOSITES**
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742
Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- CARBONACEOUS MATERIALS**
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- CARBONATES**
Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
- CARBONIZATION**
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N82-25789
- CARBONYL COMPOUNDS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- CARBORANE**
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- CARBOXYL GROUP**
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
- CARBOXYLIC ACIDS**
Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- CARCINOGENS**
Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

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Reference apparatus for medical ultrasonic transducer
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[NASA-CASE-MFS-20418] c 14 N73-24473
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

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Digital computing cardiostachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

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G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268
Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

CARGO

Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294

CARRIER FREQUENCIES

Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-16337-1-CU] c 33 N82-29539

CARRIER LIFETIME

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

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Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

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Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744

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Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179

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Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813

CASCADE CONTROL

Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

CASCADE FLOW

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Degassing and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

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Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179

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Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817

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Cassegrain antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
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[NASA-CASE-NPO-10539] c 07 N71-11285
Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000

CASTING

Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

CASTINGS

Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570

CATALYSIS

Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374

CATALYSTS

Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHO-03903] c 15 N69-21922
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
Catalyst for carbon monoxide oxidation
[NASA-CASE-LAR-14155-1-SB] c 25 N90-11823

CATALYTIC ACTIVITY

Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

CATHETERIZATION

Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095

CATHODE RAY TUBES

Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182
Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273
Display system
[NASA-CASE-ERC-10350] c 14 N73-20474
Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250

CATHODES

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011

CATIONS

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

CAVITATION FLOW

Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615

CAVITIES

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N89-14408

CAVITY RESONATORS

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311

- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
- Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- CELESTIAL BODIES**
- Device for determining relative angular position between a spacecraft and a radiation emitting celestial body
[NASA-CASE-GSC-11444-1] c 14 N73-28490
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MSC-12593-1] c 17 N76-21250
- CELESTIAL NAVIGATION**
- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797
- CELL ANODES**
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034
- Electrically rechargeable REDOX flow cell
[NASA-CASE-LEW-12220-1] c 44 N77-14581
- CELL DIVISION**
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- CELLS**
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- CELLS (BIOLOGY)**
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
- Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
- Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
- Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852
- CELLULOSE**
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- CELLULOSE NITRATE**
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- CENTERBODIES**
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- CENTRAL PROCESSING UNITS**
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- CENTRIFUGAL COMPRESSORS**
- Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] c 37 N84-28081
- CENTRIFUGAL FORCE**
- Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- CENTRIFUGES**
- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829
- CERAMIC BONDING**
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- CERAMIC COATINGS**
- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- CERAMIC HONEYCOMBS**
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- CERAMIC MATRIX COMPOSITES**
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- CERAMIC NUCLEAR FUELS**
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- CERAMICS**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464
- Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N89-13620
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-15261
- CEREBROSPINAL FLUID**
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- CERMETS**
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Cermet composition and method of fabrication --- heat resistant alloys and powders
[NASA-CASE-NPO-13120-1] c 27 N76-15311
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- CESIUM**
- Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383
- CESIUM DIODES**
- Thermionic tantalum emitter doped with oxygen Patent
Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- CESIUM ENGINES**
- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- CESIUM VAPOR**
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- CHALCOGENIDES**
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- CHAMBERS**
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- CHANGE DETECTION**
- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- CHANNEL FLOW**
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- CHANNELS (DATA TRANSMISSION)**
- Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224

- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
- CHARACTER RECOGNITION**
Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- CHARACTERIZATION**
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794
- Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
- CHARGE COUPLED DEVICES**
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- CHARGE DISTRIBUTION**
Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- CHARGE EFFICIENCY**
State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
- CHARGE EXCHANGE**
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
- CHARGE TRANSFER**
Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- CHARGE TRANSFER DEVICES**
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- CHARGED PARTICLES**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
- Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- CHARGING**
Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- CHARRING**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
- Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
- CHASSIS**
Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

CHECKOUT

- Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359

CHELATES

- Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

CHEMICAL ANALYSIS

- Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
- Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

CHEMICAL AUXILIARY POWER UNITS

- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044

CHEMICAL BONDS

- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

CHEMICAL COMPOSITION

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Novel polyimide compositions based on 4,4': isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148

CHEMICAL COMPOUNDS

- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

CHEMICAL ELEMENTS

- Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123

CHEMICAL ENGINEERING

- Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

CHEMICAL EXPLOSIONS

- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

CHEMICAL INDICATORS

- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSD-20857-1] c 37 N87-17035

CHEMICAL MACHINING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033

CHEMICAL PROPERTIES

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058

CHEMICAL REACTIONS

- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4,5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
- Process for preparation of dianiinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Metal containing polymers from cyclic tetrameric phenylphosphonitriamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Self-cycling fluid heater
[NASA-CASE-MSD-15567-1] c 33 N73-16918
- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 33 N73-22710
- Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
- Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103
- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229
- Method for preparing addition type polyimide prepgs
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698
- The 1-(diorganooxy phosphonyl) methyl-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048

CHEMICAL REACTORS

- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
- Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
- Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589

CHEMICAL TESTS

- Nondestructive spot test method for titanium and titanium alloys
[NASA-CASE-LAR-10539-1] c 17 N73-12547
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039

CHEMILUMINESCENCE

- Method and apparatus for eliminating luminol interference material
[NASA-CASE-MSC-16260-1] c 51 N80-16714

CHEMISORPTION

- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

CHEMOTHERAPY

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613

CHIPS (ELECTRONICS)

- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

CHIRP SIGNALS

- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443

CHLORIDES

- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

CHLORINATION

- Specialized halogen generator for purification of water
Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
- Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743

CHLORINE

- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

CHLOROPRENE RESINS

- Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

CHOKES

- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154

CHOKES (RESTRICTIONS)

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

CHOLESTEROL

- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

CHROMATOGRAPHY

- Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

CHROMIUM

- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

CHROMIUM ALLOYS

- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Nickel ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505

CHROMIUM COMPOUNDS

- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

CHROMOSOMES

- Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

CINEMATOGRAPHY

- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411
- Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402

CIRCUIT BOARDS

- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
- High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

CIRCUIT BREAKERS

- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Detentng servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
- Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204

CIRCUIT DIAGRAMS

- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
- Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
- Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

CIRCUIT PROTECTION

- Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
- Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
- Electrical load protection device Patent
[NASA-CASE-MSC-12135-1] c 09 N71-12526
- Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
- Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Multiple circuit protector device
[NASA-CASE-XMS-02744] c 33 N75-27249
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14825
- Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008

CIRCUIT RELIABILITY

- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231

CIRCUITS

Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470

Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743

Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712

Starting circuit for vapor lamps and the like Patent
[NASA-CASE-XNP-01058] c 09 N71-12540

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687

High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092

Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958

Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960

Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139

Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129

Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200

Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048

Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252

Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241

Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230

Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428

Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181

Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531

Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257

Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389

Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974

High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

Arctet power supply and start circuit
[NASA-CASE-LEW-14374-1] c 09 N88-28939

Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

CIRCULAR CONES

Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298

CIRCULAR CYLINDERS

Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479

CIRCULAR POLARIZATION

Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148

Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235

Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104

CIRCULAR TUBES

Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CIRCULATION CONTROL AIRFOILS

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

CIRCULATORS (PHASE SHIFT CIRCUITS)

Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097

Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372

CIRCUMFERENCES

Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N89-14408

CLADDING

Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613

CLAMPING CIRCUITS

Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782

CLAMPS

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531

Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560

Reusable thermal cycling clamp
[NASA-CASE-LAR-12868-1] c 37 N85-21651

Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

CLAYS

Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184

CLEAN ROOMS

Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137

CLEANERS

Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849

Noncontaminating swabs
[NASA-CASE-MFS-18100] c 15 N72-11390

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

CLEANING

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035

CLEAR AIR TURBULENCE

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040

CLEARANCES

Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366

Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

CLEAVAGE

Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730

Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

CLIMBING FLIGHT

Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

CLINICAL MEDICINE

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072

Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368

Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379

Automated clinical system for chromosome analysis
[NASA-CASE-NPO-13913-1] c 52 N79-12694

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLIPS

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

CLOCKS

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392

CLOSED CIRCUIT TELEVISION

Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

CLOSED CYCLES

Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

CLOSED ECOLOGICAL SYSTEMS

Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207

Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280

Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

CLOSTRIDIUM

Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

CLOSURES

Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

CLOUD CHAMBERS

Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374

CLOUD COVER

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

CLOUDS (METEOROLOGY)

Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318

- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- CLUTCHES**
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Non-backdrivable free wheeling coupling
[NASA-CASE-MS-C-20475-1] c 37 N87-17037
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- CLUTTER**
Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
Method and apparatus for measuring distance
[NASA-CASE-MS-C-20912-1] c 32 N88-26568
- CMOS**
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- COAL**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- COAL GASIFICATION**
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- COAL LIQUEFACTION**
Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- COAL UTILIZATION**
Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
- COATING**
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- COATINGS**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- COAXIAL CABLES**
Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- COAXIAL PLASMA ACCELERATORS**
Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- COBALT**
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- COBALT ALLOYS**
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- COBALT COMPOUNDS**
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
- COBALT OXIDES**
High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
- COCKPIT SIMULATORS**
Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- COCKPITS**
Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- CODERS**
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MS-C-14070-1] c 32 N74-32598
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- CODING**
Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217
Binary concatenated coding system
[NASA-CASE-MS-C-14082-1] c 60 N76-23850
Differential pulse code modulation
[NASA-CASE-MS-C-12506-1] c 32 N77-12239
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
A VLSI single-chip (225,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N88-27220
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N89-29955
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310
- COEFFICIENT OF FRICTION**
Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- COENZYMES**
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149
- COHERENT ELECTROMAGNETIC RADIATION**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- COHERENT LIGHT**
Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Amplitude modulated laser transmitter Patent
[NASA-CASE-XMS-04269] c 16 N71-22895
Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- COHERENT RADIATION**
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- COINCIDENCE CIRCUITS**
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MS-C-14649-1] c 33 N76-16331
- COLD CATHODES**
Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- COLD GAS**
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071
- COLD WELDING**
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- COLD WORKING**
Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- COLLAPSE**
Collapsible pistons
[NASA-CASE-MS-C-13789-1] c 11 N73-32152
- COLLECTION**
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MS-C-18223-1] c 24 N82-29362
Improved method and apparatus for waste collection and storage
[NASA-CASE-MS-C-21025-1] c 31 N87-25495
- COLLIMATION**
Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253

COLLIMATORS

- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

COLLISION AVOIDANCE

- Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
- Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132

COLLISIONS

- Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

COLLOIDAL GENERATORS

- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265

COLLOIDAL PROPELLANTS

- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213

COLLOIDS

- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874

COLOR

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
- Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

COLOR PHOTOGRAPHY

- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

COLOR TELEVISION

- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076
- Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083

COLOR VISION

- Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015

COLUMNS

- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258

COLUMNS (PROCESS ENGINEERING)

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936

COLUMNS (SUPPORTS)

- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324

COMBINATORIAL ANALYSIS

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

COMBUSTION

- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

COMBUSTION CHAMBERS

- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

- Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

- Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

- Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665

- Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

- Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190

- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224

- Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357

- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

- Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

- General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075

- Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

- Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144

- Micronized coal burner facility
[NASA-CASE-LEW-13426-1] c 25 N84-16276

- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577

- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

- Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829

- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

- High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

- Combustion control
[NASA-CASE-XLE-03494] c 27 N71-21819

- Burning rate control of solid propellants Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

- Combustion physics
[NASA-CASE-NPO-11559] c 28 N73-24784

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

COMBUSTION PHYSICS

- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

COMBUSTION PRODUCTS

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

- Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

- Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

- Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

- Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450

- Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207

- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476

- System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146

- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

- Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252

- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

- Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741

- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205

- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174

- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654

- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001

- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009

- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813

- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

- Combustion control
[NASA-CASE-XLE-00111] c 28 N70-38199

- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958

- Combustion physics
[NASA-CASE-NPO-11559] c 28 N73-24784

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

- Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457

- Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527

- Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151

- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447

- Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

- Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829

- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

- High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771

- Satellite aided vehicle avoidance system
[NASA-CASE-ERC-10419-1] c 03 N75-30132
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- COMMUTATION**
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- COMMUTATORS**
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- COMPARATOR CIRCUITS**
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
- Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
- Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308
- COMPARATORS**
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
- COMPENSATORS**
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- COMPLEX COMPOUNDS**
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- COMPONENT RELIABILITY**
Acoustic guide for noise-transmission testing of aircraft
[NASA-CASE-LAR-13111-1-CU] c 71 N87-21652
- COMPOSITE MATERIALS**
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076
- Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
- Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
- High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259
- COMPOSITE PROPELLANTS**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
- Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
- COMPOSITE STRUCTURES**
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
- Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586
- Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
- COMPOSITION (PROPERTY)**
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- COMPRESSED AIR**
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- COMPRESSIBILITY**
Nozzle extraction process and handlemeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- COMPRESSIBLE FLUIDS**
Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- COMPRESSING**
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- COMPRESSION LOADS**
Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- COMPRESSION RATIO**
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- COMPRESSION TESTS**
Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- COMPRESSIVE STRENGTH**
Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- COMPRESSOR BLADES**
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
- Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
- COMPRESSOR ROTORS**
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
- COMPRESSORS**
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610

- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

COMPUTATION

- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

COMPUTER COMPONENTS

- Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Binary to binary coded decimal converter
[NASA-CASE-GSC-12044-1] c 60 N78-17691
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COMPUTER DESIGN

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

COMPUTER GRAPHICS

- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621

COMPUTER INFORMATION SECURITY

- Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N89-29955

COMPUTER NETWORKS

- High-speed data link for moderate distances and noisy environments
[NASA-CASE-NPO-14152-1] c 32 N80-18252
Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779
Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

COMPUTER PROGRAMMING

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

COMPUTER PROGRAMS

- Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

COMPUTER STORAGE DEVICES

- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595

- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Distributed multiport memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

COMPUTER SYSTEMS DESIGN

- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

COMPUTER TECHNIQUES

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

COMPUTER VISION

- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868

COMPUTERIZED SIMULATION

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410

COMPUTERS

- Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Communications link for computers
[NASA-CASE-NPO-11161] c 08 N72-25207
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N89-29955
Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

CONCAVITY

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003

CONCENTRATORS

- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602

- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

CONCENTRIC CYLINDERS

- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783

CONCENTRIC SPHERES

- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

CONDENSATES

- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

CONDENSERS (LIQUEFIERS)

- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

CONDENSING

- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

CONDUCTING FLUIDS

- Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686

CONDUCTIVE HEAT TRANSFER

- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419

CONDUCTIVITY

- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

CONDUCTORS

- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

CONES

- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

CONFIGURATION MANAGEMENT

- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

CONFINEMENT

- Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265

CONICAL BODIES

- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

CONICAL SCANNING

- Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

CONICAL SHELLS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580

- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- CONJUGATES**
Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- CONNECTORS**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605
Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
- CONSCIOUSNESS**
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
- CONSISTENCY**
Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- CONSOLES**
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- CONSTANTS**
Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- CONSTRAINTS**
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Cable restraint
[NASA-CASE-LAR-10129-1] c 15 N73-25512
Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
Reefing system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- CONSTRUCTION MATERIALS**
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Foldable construction block
[NASA-CASE-MSC-12233-2] c 32 N73-13921
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- CONTACT POTENTIALS**
Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408
- CONTAINERLESS MELTS**
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- CONTAINERS**
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- CONTAINMENT**
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- CONTAMINANTS**
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- CONTAMINATION**
Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- CONTINUOUS RADIATION**
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- CONTINUOUS WAVE LASERS**
High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
Stark effect spectrophotometer for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Spectrophotometer stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- CONTINUOUS WAVE RADAR**
Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568
- CONTINUUM FLOW**
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
- CONTOUR SENSORS**
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- CONTOURS**
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724
Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- CONTROL**
Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
Failure detection and control means for improved drift performance of a gimbalized platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- CONTROL BOARDS**
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- CONTROL DATA (COMPUTERS)**
Computer interface system
[NASA-CASE-NPO-13428-1] c 60 N77-12721
- CONTROL EQUIPMENT**
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570
Control device Patent
[NASA-CASE-XAC-10019] c 15 N71-23809
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Synchronous orbit battery cyclers
[NASA-CASE-GSC-11211-1] c 03 N72-25020
Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
- CONTROL ROCKETS**
Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- CONTROL RODS**
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

CONTROL SIMULATION

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CONTROL STABILITY

Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422

CONTROL SURFACES

Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

CONTROL SYSTEMS DESIGN

Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
ARC length control for plasma welding
[NASA-CASE-MSC-20900-1] c 37 N88-30131
Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967

CONTROL THEORY

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

CONTROL UNITS (COMPUTERS)

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

CONTROL VALVES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185
Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Slow opening valve --- valve design for shuttle portable oxygen system
[NASA-CASE-MSC-20112-1] c 37 N85-20338
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867

CONTROLLED ATMOSPHERES

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

CONTROLLERS

Three axis controller Patent
[NASA-CASE-XFR-00181] c 21 N70-33279
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

CONVECTION

Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

CONVECTIVE FLOW

Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

CONVECTIVE HEAT TRANSFER

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095

CONVERGENCE

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

CONVERGENT NOZZLES

Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246

CONVERGENT-DIVERGENT NOZZLES

Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

CONVERSION

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

CONVERTERS

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

CONVEYORS

System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

CONVOLUTION INTEGRALS

Real time pipeline system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

COOLANTS

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

COOLING

Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
High temperature electric arc furnace
[NASA-CASE-MFS-28281-1] c 09 N88-28938
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

COOLING SYSTEMS

Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046
Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Heat exchanger --- rocket combustion chambers and cooling systems
[NASA-CASE-LEW-12252-1] c 34 N79-13288

- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Cooling system for high speed aircraft
[NASA-CASE-LAR-12406-1] c 05 N81-26114
- Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- Radiative cooler --- spacecraft radiators
[NASA-CASE-NPO-15465-1] c 34 N84-22903
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- Monogroove cold plate
[NASA-CASE-MSC-20946-1] c 34 N87-28867
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

COORDINATES

- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

COPOLYMERIZATION

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

COPOLYMERS

- Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

COPPER

- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
- Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Metal (2), 4, 4', 4'', phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281

COPPER ALLOYS

- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

COPPER CHLORIDES

- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011

COPPER COMPOUNDS

- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

COPPER FLUORIDES

- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093

COPPER OXIDES

- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

CORDAGE

- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

CORE STORAGE

- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198

CORES

- Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

CORK (MATERIALS)

- Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

CORRECTION

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

CORRELATION

- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968

CORRELATION DETECTION

- Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

CORRELATORS

- Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723
- Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

CORROSION

- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

CORROSION PREVENTION

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
- Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408

- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Ozonation of cooling tower waters

- [NASA-CASE-NPO-14340-1] c 45 N80-14579

- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596

- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

CORROSION RESISTANCE

- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-02991] c 17 N71-16025
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371
- Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303

CORRUGATED PLATES

- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786

CORRUGATING

- Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450

COSINE SERIES

- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
- Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

COSMIC DUST

- Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

COST ANALYSIS

- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460

COST EFFECTIVENESS

- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

COUCHES

- Shock absorbing support and restraint means Patent
[NASA-CASE-GSC-01240] c 05 N70-35152
- Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085

COULOMETERS

- Electrochemical coulometer and method of forming same Patent
[NASA-CASE-XGS-05434] c 03 N71-20491

Coulometer and third electrode battery charging circuit Patent
 [NASA-CASE-GSC-10487-1] c 03 N71-24719
 State-of-charge coulometer
 [NASA-CASE-NPO-15759-1] c 35 N85-21596

COUNTERBALANCES
 Load positioning system with gravity compensation
 [NASA-CASE-ARC-11525-1] c 37 N86-27629

COUNTERS
 Counter Patent
 [NASA-CASE-XNP-06234] c 10 N71-27137
 Electronic strain-level counter
 [NASA-CASE-LAR-10756-1] c 32 N73-26910
 Electrochemical detection device --- for use in microbiology
 [NASA-CASE-LAR-11922-1] c 25 N79-24073
 Redundant operation of counter modules
 [NASA-CASE-NPO-14162-1] c 60 N81-15706
 Film advance indicator
 [NASA-CASE-LAR-12474-1] c 35 N82-26628
 Apparatus and process for microbial detection and enumeration
 [NASA-CASE-LAR-12709-1] c 35 N82-28604
 Apparatus for using a time interval counter to measure frequency stability
 [NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

COUNTING CIRCUITS
 Scanning aspect sensor employing an apertured disc and a commutator
 [NASA-CASE-XGS-08266] c 14 N69-27432
 Ring counter
 [NASA-CASE-XGS-03095] c 09 N69-27463
 Relay binary circuit Patent
 [NASA-CASE-XMF-00421] c 09 N70-34502
 Reversible ring counter employing cascaded single SCR stages Patent
 [NASA-CASE-XGS-01473] c 09 N71-10673
 Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
 [NASA-CASE-XLE-01246] c 14 N71-10797
 Magnetic counter Patent
 [NASA-CASE-XNP-08836] c 09 N71-12515
 Synchronous counter Patent
 [NASA-CASE-XGS-02440] c 08 N71-19432
 Digital cardiachometer system Patent
 [NASA-CASE-XMS-02399] c 05 N71-22896
 Counter and shift register Patent
 [NASA-CASE-XNP-01753] c 08 N71-22897
 Noninterruptable digital counting system Patent
 [NASA-CASE-XNP-09759] c 08 N71-24891
 Frequency measurement by coincidence detection with standard frequency
 [NASA-CASE-MS-14649-1] c 33 N76-16331
 Redundant operation of counter modules
 [NASA-CASE-NPO-14162-1] c 60 N81-15706

COUPLING
 Coupling for linear shaped charge Patent
 [NASA-CASE-XLA-00189] c 33 N70-36846
 Expandable support means
 [NASA-CASE-NPO-11059] c 15 N72-17454
 Coupled cavity traveling wave tube with velocity tapering
 [NASA-CASE-LEW-12296-1] c 33 N82-26568
 Electrical power generating system
 [NASA-CASE-MFS-25302-1] c 33 N83-28319
 Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
 [NASA-CASE-MFS-25302-2] c 33 N84-33660
 Magnetic drive coupling
 [NASA-CASE-MS-21171-1] c 37 N88-23973
 Optical pressure sealing coupling apparatus
 [NASA-CASE-MFS-29348-1] c 74 N89-25689

COUPLING CIRCUITS
 Flipflop interrogator and bi-polar current driver Patent
 [NASA-CASE-XGS-03058] c 10 N71-19547
 Antenna array at focal plane of reflector with coupling network for beam switching Patent
 [NASA-CASE-GSC-10220-1] c 07 N71-27233
 Phase modulator Patent
 [NASA-CASE-MS-13201-1] c 07 N71-28429
 Signal path series step biased multidevice high efficiency amplifier Patent
 [NASA-CASE-GSC-10668-1] c 07 N71-28430
 Automatic quadrature control and measuring system --- using optical coupling circuitry
 [NASA-CASE-MFS-21660-1] c 35 N74-21017
 Diode-quad bridge circuit means
 [NASA-CASE-ARC-10364-3] c 33 N75-19520
 Non-contacting power transfer device
 [NASA-CASE-GSC-12595-1] c 33 N82-24422

COUPLINGS
 Coupling device
 [NASA-CASE-XMS-07846-1] c 09 N69-21927
 Tubular coupling having frangible connecting means
 [NASA-CASE-XLA-02854] c 15 N69-27490

Quick release separation mechanism Patent
 [NASA-CASE-XLA-01441] c 15 N70-41679
 Indexed keyed connection Patent
 [NASA-CASE-XMS-02532] c 15 N70-41808
 Quick attach and release fluid coupling assembly Patent
 [NASA-CASE-XKS-01985] c 15 N71-10782
 Ratchet mechanism Patent
 [NASA-CASE-MFS-12805] c 15 N71-17805
 Split nut separation system Patent
 [NASA-CASE-XNP-06914] c 15 N71-21489
 Duct coupling for single-handed operation Patent
 [NASA-CASE-MFS-20395] c 15 N71-24903
 Isolation coupling arrangement for a torque measuring system
 [NASA-CASE-XLA-04897] c 15 N72-22482
 Refrigerated coaxial coupling --- for microwave equipment
 [NASA-CASE-NPO-13504-1] c 33 N75-30430
 Opto-mechanical subsystem with temperature compensation through isothermal design
 [NASA-CASE-GSC-12059-1] c 35 N77-27366
 Prosthesis coupling
 [NASA-CASE-KSC-11069-1] c 52 N79-26772
 Coupling device for moving vehicles
 [NASA-CASE-GSC-12322-1] c 37 N80-14398
 Device for coupling a first vehicle to a second vehicle
 [NASA-CASE-GSC-12429-1] c 37 N81-14320
 Micro-fluid exchange coupling apparatus
 [NASA-CASE-ARC-11114-1] c 51 N81-14605
 Reusable captive blind fastener
 [NASA-CASE-MS-18742-1] c 37 N82-26673
 Apparatus for releasably connecting first and second objects in predetermined space relationship
 [NASA-CASE-MS-18969-1] c 18 N84-22605
 Connection system --- insuring against loss of a tool component without using multiple tethers
 [NASA-CASE-MS-20319-1] c 37 N85-21649
 Non-backdrivable free wheeling coupling
 [NASA-CASE-MS-20475-1] c 37 N87-17037
 Tube coupling device
 [NASA-CASE-MFS-25964-2] c 37 N87-22977
 Preloaded space structural coupling joints
 [NASA-CASE-LAR-13489-1] c 18 N87-27713
 Docking system for spacecraft
 [NASA-CASE-MS-21327-1] c 18 N90-11798

COVARIANCE
 Auto covariance computer
 [NASA-CASE-LAR-12968-1] c 60 N86-21154

COVERINGS
 Apparatus for ejection of an instrument cover
 [NASA-CASE-XMF-04132] c 15 N69-27502
 Fire blocking systems for aircraft seat cushions
 [NASA-CASE-ARC-11423-1] c 03 N84-33394
 Hatch cover
 [NASA-CASE-MS-21356-1] c 18 N90-19278

COWLINGS
 Thrust reverser for a long duct fan engine --- for turbofan engines
 [NASA-CASE-LEW-13199-1] c 07 N82-26293

CRACK OPENING DISPLACEMENT
 Ultrasonic method and apparatus for determining crack opening load
 [NASA-CASE-LAR-13889-1] c 39 N88-30160

CRACK PROPAGATION
 Fatigue testing apparatus
 [NASA-CASE-LEW-14124-1] c 35 N89-28806

CRACKING (FRACTURING)
 Method of inhibiting stress corrosion cracks in titanium alloys Patent
 [NASA-CASE-NPO-10271] c 17 N71-16393
 TV fatigue crack monitoring system
 [NASA-CASE-LAR-11490-1] c 39 N78-16387

CRACKS
 Method of repairing hidden leaks in tubes
 [NASA-CASE-MFS-19796-1] c 37 N86-32736

CRANES
 Space spider crane
 [NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

CRASH LANDING
 Aircraft-mounted crash-activated transmitter device
 [NASA-CASE-MFS-16609-3] c 03 N76-32140

CREEP RUPTURE STRENGTH
 Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
 [NASA-CASE-XLE-02082] c 17 N71-16026
 Heat treatment for superalloy
 [NASA-CASE-LEW-14262-1] c 26 N87-28647

CREEP TESTS
 Tensile testing apparatus
 [NASA-CASE-LAR-13243-1] c 35 N85-34375

CRITICAL EXPERIMENTS
 Gas liquefaction and dispensing apparatus Patent
 [NASA-CASE-NPO-10070] c 15 N71-27372

CRITICAL TEMPERATURE

Stable superconducting magnet --- high current levels below critical temperature
 [NASA-CASE-XMF-05373-1] c 33 N79-21264

CROSS CORRELATION
 Cross correlation anomaly detection system
 [NASA-CASE-NPO-13283] c 38 N78-17395
 Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
 [NASA-CASE-NPO-15430-1] c 46 N85-21846

CROSS FLOW
 Aerodynamic side-force alleviator means
 [NASA-CASE-LAR-12326-1] c 02 N81-14968
 Wingtip vortex propeller
 [NASA-CASE-LAR-13019-1] c 07 N85-35194
 Crossflow vorticity sensor
 [NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

CROSS POLARIZATION
 Adaptive polarization separation
 [NASA-CASE-LAR-12196-1] c 33 N81-26358

CROSSED FIELDS
 Plasma accelerator Patent
 [NASA-CASE-XLA-00675] c 25 N70-33267
 Energy conversion apparatus Patent
 [NASA-CASE-XLE-00212] c 03 N70-34134
 Crossed-field MHD plasma generator/accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562

CROSSLINKING
 Trifunctional alcohol
 [NASA-CASE-NPO-10714] c 06 N69-31244
 Trimerization of aromatic nitriles
 [NASA-CASE-LEW-12053-1] c 27 N78-15276
 Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
 [NASA-CASE-ARC-11008-1] c 27 N78-31232
 In situ self cross-linking of polyvinyl alcohol battery separators
 [NASA-CASE-LEW-12972-1] c 44 N79-25481
 Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
 [NASA-CASE-LEW-12053-2] c 27 N79-28307
 Method of cross-linking polyvinyl alcohol and other water soluble resins
 [NASA-CASE-LEW-13103-1] c 27 N80-32516
 Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
 [NASA-CASE-ARC-11248-1] c 27 N81-17259
 The 1,2,4-oxadiazole elastomers --- heat resistant polymers
 [NASA-CASE-ARC-11253-1] c 27 N81-17262
 In-situ cross linking of polyvinyl alcohol --- application to battery separator films
 [NASA-CASE-LEW-13135-2] c 27 N81-24257
 Cross-linked polyvinyl alcohol and method of making same
 [NASA-CASE-LEW-13101-2] c 23 N81-29160
 Polyvinyl alcohol cross-linked with two aldehydes
 [NASA-CASE-LEW-13504-1] c 25 N83-13188
 Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
 [NASA-CASE-NPO-14857-1] c 27 N83-19900
 Low temperature cross linking polyimides
 [NASA-CASE-LEW-12876-2] c 27 N83-29392
 Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
 [NASA-CASE-NPO-14987-1] c 24 N83-33950
 Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
 [NASA-CASE-LAR-12838-1] c 27 N83-34040
 Process for preparing perfluorotriazine elastomers and precursors thereof
 [NASA-CASE-ARC-11402-1] c 27 N84-22744
 Ethynyl and substituted ethynyl-terminated polysulfones
 [NASA-CASE-LAR-12931-1] c 27 N84-22747
 Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
 [NASA-CASE-LAR-12723-1] c 27 N85-20123
 Chemical approach for controlling nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-5] c 27 N85-21352
 Chemical control of nadimide cure temperature and rate
 [NASA-CASE-LEW-13770-2] c 25 N85-28982
 Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
 [NASA-CASE-LAR-13448-1] c 27 N86-24840
 Laminate comprising fibers embedded in cured amine terminated bis-imide
 [NASA-CASE-ARC-11421-3] c 24 N86-25416

- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725
- CRUCIBLES**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- CRUCIFORM WINGS**
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- CRUDE OIL**
Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- CRUSTAL FRACTURES**
System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- CRYOGENIC COOLING**
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Stirling cycle cryogenic cooler
[US-PATENT-4.389,849] c 44 N83-28574
- Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
- Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
- Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
- CRYOGENIC EQUIPMENT**
Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
- Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
- Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
- Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
- Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
- Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- CRYOGENIC FLUID STORAGE**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
- Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
- Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
- Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- CRYOGENIC FLUIDS**
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
- Automatic thermal switch Patent
[NASA-CASE-XNP-03796] c 23 N71-15467
- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
- Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
- Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
- Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
- Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- CRYOGENIC GYROSCOPES**
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
- CRYOGENIC MAGNETS**
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- CRYOGENIC ROCKET PROPELLANTS**
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
- Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- CRYOGENIC STORAGE**
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
- Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
- CRYOGENIC TEMPERATURE**
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- CRYOGENIC WIND TUNNELS**
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N88-25355
- CRYOGENICS**
Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743
- Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- CRYOLITE**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- CRYOSTATS**
Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- CRYOTRAPPING**
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- CRYPTOGRAPHY**
Computer access security code system
[NASA-CASE-NPO-17525-1-CU] c 60 N89-29955
- CRYSTAL DEFECTS**
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- CRYSTAL FILTERS**
Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
- CRYSTAL GROWTH**
Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466
- Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
- Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113

- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
- Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N88-25356
- Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N88-25357
- High temperature electric arc furnace
[NASA-CASE-MFS-28281-1] c 09 N88-28938
- CRYSTAL LATTICES**
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- CRYSTAL OPTICS**
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- CRYSTAL OSCILLATORS**
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
- CRYSTAL RECTIFIERS**
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- CRYSTAL STRUCTURE**
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- CRYSTALLINITY**
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- CRYSTALLIZATION**
- Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- Novel polyimide compositions based on 4,4': isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- CRYSTALS**
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- CUBIC LATTICES**
- Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

CUES

- Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

CUFFS

- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

CULTURE TECHNIQUES

- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- Horizontally rotated cell culture system
[NASA-CASE-MSC-21294-1] c 51 N89-13131
- Bio-reactor cell culture process
[NASA-CASE-MSC-21293-1] c 51 N89-14666
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Hollow fiber ciliostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252
- Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

CURIE TEMPERATURE

- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678

CURING

- Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
- Metal (2) 4,4',4'' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

CURRENT AMPLIFIERS

- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453

CURRENT DENSITY

- Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
- Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

CURRENT DISTRIBUTION

- Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
- Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
[NASA-CASE-XER-11046-2] c 33 N74-22864

CURRENT REGULATORS

- Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318
- Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212
- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126

CURVATURE

- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CURVE FITTING

- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

CURVED PANELS

- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

CUSHIONS

- Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228

Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394

CUTTERS

Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798

Weld preparation machine Patent
[NASA-CASE-XKS-07953] c 15 N71-26134

Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968

Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

Ophthalmic liquifaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703

Open ended tubing cutters
[NASA-CASE-MSC-18538-1] c 37 N82-26672

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

CUTTING

Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085

CYANATES

Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116

CYCLES

Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469

Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167

CYCLIC ACCELERATORS

Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458

CYCLIC COMPOUNDS

Carboranylcyctriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

CYCLIC HYDROCARBONS

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

Synthesis of 2,4,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

CYCLIC LOADS

Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877

Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

CYCLOTRON RADIATION

Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

CYCLOTRON RESONANCE

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

CYCLOTRON RESONANCE DEVICES

Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163

Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

CYLINDRICAL ANTENNAS

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

CYLINDRICAL BODIES

Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968

Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

CYLINDRICAL CHAMBERS

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

CYLINDRICAL SHELLS

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

CYSTS

Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751

CYTOLOGY

Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

CZOCHEWSKI METHOD

Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

D**DAMAGE**

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

DAMPERS (VALVES)

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

DAMPING

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997

Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228

Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841

DATA ACQUISITION

Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125

Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090

Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662

DATA COLLECTION PLATFORMS

Remote platform power conserving system
[NASA-CASE-GSC-11182-1] c 15 N75-13007

DATA COMPRESSION

Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506

Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288

Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154

Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

DATA CONVERTERS

Logarithmic converter Patent
[NASA-CASE-XLA-00471] c 08 N70-34778

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Analog Signal to Discrete Time Interval Converter (ASDTIC)
[NASA-CASE-ERC-10048] c 09 N72-25251

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DATA CORRELATION

Instrument for determining coincidence and elapse time between independent sources of random sequential events
[NASA-CASE-LAR-12531-1] c 35 N83-29651

Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154

DATA LINKS

Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121

Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913

DATA MANAGEMENT

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

DATA PROCESSING

Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283

Charge-coupled device data processor for an airborne imaging radar system
[NASA-CASE-NPO-13587-1] c 32 N77-32342

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

DATA PROCESSING EQUIPMENT

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494

Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472

Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240
High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224
Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169

DATA PROCESSING TERMINALS

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662

DATA RECORDERS

Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831

DATA RECORDING

System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
On-film optical recording of camera lens settings
[NASA-CASE-MSC-12363-1] c 14 N73-26431
Image data rate converter having a drum with a fixed head and a rotatable head
[NASA-CASE-NPO-11659-1] c 35 N74-11283
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946

DATA REDUCTION

Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Data compressor Patent
[NASA-CASE-XNP-04067] c 08 N71-22707
Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172
Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

DATA RETRIEVAL

Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

DATA SAMPLING

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396

DATA SMOOTHING

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417

DATA STORAGE

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337

DATA STRUCTURES

Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863

DATA SYSTEMS

Data handling system based on source significance, storage availability and data received from the source Patent Application
[NASA-CASE-XNP-04162-1] c 08 N70-34675
Rate augmented digital to analog converter Patent
[NASA-CASE-XLA-07828] c 08 N71-27057
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598

DATA TRANSFER (COMPUTERS)

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

DATA TRANSMISSION

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Data compression system with a minimum time delay unit Patent
[NASA-CASE-XNP-08832] c 08 N71-12506
Data compression processor Patent
[NASA-CASE-NPO-10068] c 08 N71-19288
Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Automated attendance accounting system
[NASA-CASE-NPO-11456] c 08 N73-26176
System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328
Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
A VLSI single-chip (225,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N88-27220

DAWSONITE

Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

DEBRIS

Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090

DECAY RATES

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

DECELERATION

Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812
Hot air balloon deceleration and recovery system Patent
[NASA-CASE-XLA-06824-2] c 02 N71-11037
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

DECIMALS

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

DECISION MAKING

Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECODERS

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
BCD to decimal decoder Patent
[NASA-CASE-KKS-06167] c 08 N71-24890
Encoder/decoder system for a rapidly synchronizable binary code Patent
[NASA-CASE-NPO-10342] c 10 N71-33407
Compact-bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

DECODING

Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Method for Viterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946

DECOMMUTATORS

Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DECONTAMINATION

Decontamination of petroleum products Patent
[NASA-CASE-XNP-03835] c 06 N71-23499
Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

DEEP SPACE NETWORK

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

DEFECTS

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

DEFLECTION

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138

DEFLECTORS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343

DEFOCUSING

Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605

DEFORMATION

Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500

DEGASSING

Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652

DEGREES OF FREEDOM

Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

DEHUMIDIFICATION

Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465

DEHYDRATED FOOD

Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

DEHYDRATION

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

DEICERS

Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

DELAMINATING

Method of inseting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586

DELAY CIRCUITS

Pulsed differential comparator circuit Patent
[NASA-CASE-XLE-03804] c 10 N71-19471
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

DELAY LINES

A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900

DELTA MODULATION

Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885

DELTA WINGS

Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DEMAGNETIZATION

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

DEMULATION

Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763

Facsimile video remodulation network

[NASA-CASE-GSC-10185-1] c 07 N72-12081
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

DEMULATORS

Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Demodulation system Patent
[NASA-CASE-XAC-04030] c 10 N71-19472
Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267
Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

DENDRITIC CRYSTALS

Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888

DENSIFICATION

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171

DENSITOMETERS

Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271

DENSITY (MASS/VOLUME)

Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

DENSITY DISTRIBUTION

Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

DENSITY MEASUREMENT

Apparatus having coaxial capacitor structure for measuring fluid density Patent
[NASA-CASE-XLE-00143] c 14 N70-36618
Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018

DENTISTRY

Process for the preparation of brushite crystals
[NASA-CASE-ERC-10338] c 04 N72-33072
Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

DEOXYGENATION

Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138

DEPLOYMENT

Minimech self-deploying boom mechanism
[NASA-CASE-GSC-10568-1] c 15 N72-18477

Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

DEPOSITION

Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

DEPOSITS

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

DEPTH

Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

DEPTH MEASUREMENT

Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DESCENT

Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844

DESIGN ANALYSIS

Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717

DESTRUCTIVE TESTS

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

DESULFURIZING

Coal desulfurization process
[NASA-CASE-NPO-13937-1] c 44 N78-31527
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
Coal desulfurization by aqueous chlorination
[NASA-CASE-NPO-14902-1] c 25 N82-29371
Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

DETECTION

Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Metallic intrusion detector system
[NASA-CASE-ARC-10265-1] c 10 N72-28240
Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-2] c 25 N86-27431
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118

DETECTORS

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
- Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

DETERGENTS

- Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MS-C-13530-2] c 23 N75-14834
- Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MS-C-20857-1] c 37 N87-17035

DETONATION

- Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
- Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

DETONATION WAVES

- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

DEUTERIUM

- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860

DEW POINT

- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

DIAGNOSIS

- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

DIAGRAMS

- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

DIALYSIS

- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

DIAMETERS

- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

DIAMINES

- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-ARC-11335-1] c 27 N86-31727
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

DIAMONDS

- Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267

DIAPHRAGMS (MECHANICS)

- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
- Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Method of making a flexible diaphragm
[NASA-CASE-MS-C-20797-1] c 37 N87-23981

DIATOMIC GASES

- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

DICHROISM

- Dichroic plate --- as bandpass filters
[NASA-CASE-NPO-13506-1] c 35 N76-15435
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416

DICKE RADIOMETERS

- Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

DIDYMIUM

- Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

DIELECTRIC PROPERTIES

- Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596

DIELECTRICS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
- Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
- Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
- Electrostatic measurement system --- for contact-electrifying a dielectric
[NASA-CASE-MFS-22129-1] c 33 N75-18477
- Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N88-25355

DIELS-ALDER REACTIONS

- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIENES

- Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

DIES

- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867

DIESEL ENGINES

- Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808

DIETS

- Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270

DIFFERENCES

- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

DIFFERENTIAL AMPLIFIERS

- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440

Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

DIFFERENTIAL INTERFEROMETRY
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

DIFFERENTIAL PRESSURE
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

DIFFERENTIATION (BIOLOGY)
Three-dimensional coculture process
[NASA-CASE-MSC-21560-1] c 51 N90-18852

DIFFERENTIATORS
Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

DIFFRACTION
Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

DIFFRACTION PATTERNS
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

DIFFRACTOMETERS
Dual purpose optical instrument capable of simultaneously acting as spectrometer and diffractometer
[NASA-CASE-XNP-05231] c 14 N73-28491

DIFFUSE RADIATION
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

DIFFUSERS
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

DIFFUSION
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148

Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436

DIFFUSION PUMPS
Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489

Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

DIFFUSION WELDING
Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487

Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492

Enhanced diffusion welding
[NASA-CASE-LEW-11388-1] c 15 N73-32358

Method of fluxless brazing and diffusion bonding of aluminum containing components
[NASA-CASE-MSC-14435-1] c 37 N76-18455

Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296

DIFFUSIVITY
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

DIGITAL COMMAND SYSTEMS
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525

System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

DIGITAL COMPUTERS
Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

Binary number sorter Patent
[NASA-CASE-NPO-10112] c 08 N71-12502

Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749

Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135

High speed direct binary to binary coded decimal converter and scaler
[NASA-CASE-KSC-10595] c 08 N73-12176

Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MSC-12531-1] c 35 N75-30504

Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

Memory device for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428

Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

DIGITAL DATA
Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140

Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226

Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

DIGITAL FILTERS
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852

Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034

Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385

Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684

DIGITAL INTEGRATORS
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373

DIGITAL RADAR SYSTEMS
Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

DIGITAL SPACECRAFT TELEVISION
Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

DIGITAL SYSTEMS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158

Full binary adder Patent
[NASA-CASE-XGS-00689] c 08 N70-34787

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033

Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891

Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165

Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248

Digital slope threshold data compressor
[NASA-CASE-NPO-11630] c 08 N72-33172

Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187

Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084

Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887

Digital controller for a Baum folding machine --- providing automatic counting and machine shutoff
[NASA-CASE-LAR-10688-1] c 37 N74-21056

Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486

Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289

Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263

Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357

Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076

DIGITAL TECHNIQUES
Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692

Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751

Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088

Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Brushless DC motor control system responsive to control signals generated by a computer or the like
 [NASA-CASE-NPO-16420-1] c 33 N86-20681
 Nanosequence digital logic controller
 [NASA-CASE-NPO-16116-2] c 60 N88-29310
 Digital carrier demodulator employing components working beyond normal limits
 [NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
 Phase ambiguity resolution for offset QPSK modulation systems
 [NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

DIGITAL TO ANALOG CONVERTERS

Rate augmented digital to analog converter Patent
 [NASA-CASE-XLA-07828] c 08 N71-27057
 Buffered analog converter
 [NASA-CASE-KSC-10397] c 08 N72-25206
 Digital to analog conversion apparatus
 [NASA-CASE-MSC-12458-1] c 08 N73-32081
 Smoothing filter for digital to analog conversion
 [NASA-CASE-FRC-11025-1] c 33 N82-24417
 Memory-based parallel data output controller
 [NASA-CASE-GSC-12447-2] c 60 N84-28491
 Method and apparatus for operating on companded PCM voice data
 [NASA-CASE-KSC-11285-1] c 32 N86-27513

DIGITAL TRANSDUCERS

Digital to analog conversion apparatus
 [NASA-CASE-MSC-12458-1] c 08 N73-32081
 Angle detector
 [NASA-CASE-ARC-11036-1] c 35 N78-32395

DIISOCYANATES

Polyurethanes of fluorine containing polycarbonates
 [NASA-CASE-MFS-10512] c 06 N73-30099
 Polyurethanes from fluoroalkyl propylene glycol polyethers
 [NASA-CASE-MFS-10506] c 06 N73-30100
 Fluorine containing polyurethane
 [NASA-CASE-MFS-10509] c 06 N73-30103

DILUTION

Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
 [NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

DIMENSIONAL MEASUREMENT

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
 [NASA-CASE-GSC-12081-2] c 52 N82-22875

DIMENSIONS

Projection system for display of parallax and perspective
 [NASA-CASE-MFS-23194-1] c 35 N78-17357

DIODES

Diode and protection fuse unit Patent
 [NASA-CASE-XKS-03381] c 09 N71-22796
 Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
 [NASA-CASE-XLE-04535] c 03 N71-23354
 Shielded cathode mode bulk effect devices
 [NASA-CASE-ERC-10119] c 26 N72-21701
 Fast response low power drain logic circuits
 [NASA-CASE-GSC-10878-1] c 10 N72-22236
 Method and apparatus for detecting surface ions on silicon diodes and transistors
 [NASA-CASE-ERC-10325] c 15 N72-25457
 Temperature compensated light source using a light emitting diode
 [NASA-CASE-ARC-10467-1] c 09 N73-14214
 Wide temperature range electronic device with lead attachment
 [NASA-CASE-ERC-10224-2] c 09 N73-27150
 High isolation RF signal selection switches
 [NASA-CASE-NPO-13081-1] c 33 N74-22814
 Logarithmic circuit with wide dynamic range
 [NASA-CASE-GSC-12145-1] c 33 N78-32339
 Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
 [NASA-CASE-LEW-12791-1] c 33 N78-32341
 Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
 [NASA-CASE-GSC-12168-1] c 31 N79-17029
 Digital control of diode laser for atmospheric spectroscopy
 [NASA-CASE-NPO-16000-1] c 36 N85-29264
 Arrangement for damping the resonance in a laser diode
 [NASA-CASE-NPO-15980-1] c 36 N85-30305

DIPHENYL COMPOUNDS

Poly(carbonate-mide) polymer
 [NASA-CASE-LAR-13292-1] c 27 N86-24841
 Amine terminated bispartimide polymer
 [NASA-CASE-ARC-11421-2] c 27 N86-31726
 Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
 [NASA-CASE-ARC-11548-1] c 27 N87-25469

DIPOLE ANTENNAS

Circularly polarized antenna
 [NASA-CASE-ERC-10214] c 09 N72-31235
 Cavity-backed, micro-strip dipole antenna array
 [NASA-CASE-MSC-18606-1] c 32 N82-11336

DIRECT CURRENT

Regulated dc to dc converter
 [NASA-CASE-XGS-03429] c 03 N69-21330
 Bus voltage compensation circuit for controlling direct current motor
 [NASA-CASE-XMS-04215-1] c 09 N69-39987
 Thermionic diode switch Patent
 [NASA-CASE-NPO-10404] c 03 N71-12255
 A dc-coupled noninverting one-shot Patent
 [NASA-CASE-XNP-09450] c 10 N71-18723
 Stepping motor control circuit Patent
 [NASA-CASE-GSC-10366-1] c 10 N71-18772
 Frequency control network for a current feedback oscillator Patent
 [NASA-CASE-GSC-10041-1] c 10 N71-19418
 Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
 [NASA-CASE-XLA-03103] c 25 N71-21693
 Positive dc to positive dc converter Patent
 [NASA-CASE-XMF-14301] c 09 N71-23188
 Positive dc to negative dc converter Patent
 [NASA-CASE-XMF-08217] c 03 N71-23239
 Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
 [NASA-CASE-XMS-06061] c 05 N71-23317
 Radio frequency coaxial high pass filter Patent
 [NASA-CASE-XGS-01418] c 09 N71-23573
 Brushless direct current tachometer Patent
 [NASA-CASE-MFS-20385] c 09 N71-24904
 Inverter with means for base current shaping for sweeping charge carriers from base region Patent
 [NASA-CASE-XGS-06226] c 10 N71-25950
 Dual polarity full wave dc motor drive Patent
 [NASA-CASE-XNP-07477] c 09 N71-26092
 A dc motor speed control system Patent
 [NASA-CASE-MFS-14610] c 09 N71-28886
 Cyclic switch Patent
 [NASA-CASE-LEW-10155-1] c 09 N71-29035
 Load-insensitive electrical device
 [NASA-CASE-XER-11046] c 09 N72-22203
 A dc to ac to dc converter having transistor synchronous rectifiers
 [NASA-CASE-GSC-11126-1] c 09 N72-25253
 Electric motive machine including magnetic bearing
 [NASA-CASE-XGS-07805] c 15 N72-33476
 Powerplexer
 [NASA-CASE-MSC-12396-1] c 03 N73-31988
 Bio-isolated dc operational amplifier --- for bioelectric measurements
 [NASA-CASE-ARC-10596-1] c 33 N74-21851
 Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
 [NASA-CASE-XER-11046-2] c 33 N74-22864
 Differential pulse code modulation
 [NASA-CASE-MSC-12506-1] c 32 N77-12239
 Three phase full wave dc motor decoder
 [NASA-CASE-GSC-11824-1] c 33 N77-26386
 Time domain phase measuring apparatus
 [NASA-CASE-GSC-12228-1] c 33 N79-10338
 Direct current transformer
 [NASA-CASE-MFS-23659-1] c 33 N79-17133
 Elimination of current spikes in buck power converters
 [NASA-CASE-NPO-14505-1] c 33 N81-19393
 Controller for computer control of brushless dc motors --- automobile engines
 [NASA-CASE-NPO-13970-1] c 33 N81-20352
 Direct current ballast circuit for metal halide lamp
 [NASA-CASE-MSC-18407-1] c 33 N82-24427
 Brushless DC motor control system responsive to control signals generated by a computer or the like
 [NASA-CASE-NPO-16420-1] c 33 N86-20681
 Four quadrant control circuit for a brushless three-phase dc motor
 [NASA-CASE-MFS-28080-1] c 33 N87-21233
 Arcjet power supply and start circuit
 [NASA-CASE-LEW-14374-1] c 09 N88-28939

DIRECT LIFT CONTROLS

Velocity vector control system augmented with direct lift control
 [NASA-CASE-LAR-12268-1] c 08 N81-24106

DIRECT POWER GENERATORS

Energy conversion apparatus Patent
 [NASA-CASE-XLE-00212] c 03 N70-34134
 Thermal pump-compressor for space use Patent
 [NASA-CASE-XLA-00377] c 33 N71-17610
 Positive dc to negative dc converter Patent
 [NASA-CASE-XMF-08217] c 03 N71-23239
 Unsaturating saturable core transformer Patent
 [NASA-CASE-ERC-10125] c 09 N71-24893

Load insensitive electrical device --- power converters for supplying direct current at one voltage from a source at another voltage
 [NASA-CASE-XER-11046-2] c 33 N74-22864
 Bidirectional control system for energy flow in solar powered flywheel
 [NASA-CASE-MFS-25978-1] c 44 N87-21410

DIRECTIONAL ANTENNAS

Mechanical coordinate converter Patent
 [NASA-CASE-XNP-00614] c 14 N70-36907
 Weatherproof helix antenna Patent
 [NASA-CASE-XKS-08485] c 07 N71-19493
 Tracking antenna system Patent
 [NASA-CASE-GSC-10553-1] c 07 N71-19854
 Reversible motion drive system Patent
 [NASA-CASE-NPO-10173] c 15 N71-24696
 Variable beamwidth antenna --- with multiple beam, variable feed system
 [NASA-CASE-GSC-11862-1] c 32 N76-18295
 Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
 [NASA-CASE-NPO-14395-1] c 37 N82-21587

DIRECTIONAL CONTROL

Gimbaled, partially submerged rocket nozzle Patent
 [NASA-CASE-XMF-01544] c 28 N70-34162
 Omnidirectional wheel
 [NASA-CASE-MFS-21309-1] c 37 N74-18125
 Velocity vector control system augmented with direct lift control
 [NASA-CASE-LAR-12268-1] c 08 N81-24106
 Magnetic heading reference
 [NASA-CASE-LAR-12638-1] c 04 N84-14132

DIRECTIONAL SOLIDIFICATION (CRYSTALS)

Preparation of monotelect alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
 [NASA-CASE-MFS-23816-1] c 26 N80-23419
 High gradient directional solidification furnace
 [NASA-CASE-MFS-25963-1] c 35 N86-20750
 Directional solidification of superalloys
 [NASA-CASE-MFS-28314-1] c 26 N90-15227

DIRECTIONAL STABILITY

Nose gear steering system for vehicle with main skids Patent
 [NASA-CASE-XLA-01804] c 02 N70-34160
 System for imposing directional stability on a rocket-propelled vehicle
 [NASA-CASE-MFS-21311-1] c 20 N76-21275

DIRECTIVITY

Multiprism collimator
 [NASA-CASE-GSC-12608-1] c 74 N83-10900

DISCONNECT DEVICES

Gas actuated bolt disconnect Patent
 [NASA-CASE-XLA-00326] c 03 N70-34667
 Umbilical disconnect Patent
 [NASA-CASE-XLA-00711] c 03 N71-12258
 Remote controlled tubular disconnect Patent
 [NASA-CASE-XLA-01396] c 03 N71-12259
 Quick release connector Patent
 [NASA-CASE-XLA-01141] c 15 N71-13789
 Split nut separation system Patent
 [NASA-CASE-XNP-06914] c 15 N71-21489
 Separation simulator Patent
 [NASA-CASE-XKS-04631] c 10 N71-23663
 Duct coupling for single-handed operation Patent
 [NASA-CASE-MFS-20395] c 15 N71-24903
 Breakaway connector
 [NASA-CASE-NPO-11140] c 15 N72-17455
 Torsional disconnect unit
 [NASA-CASE-NPO-10704] c 15 N72-20445
 Frangible link
 [NASA-CASE-MSC-11849-1] c 15 N72-22488
 Quick disconnect coupling
 [NASA-CASE-NPO-11202] c 15 N72-25450
 Quick disconnect filter coupling
 [NASA-CASE-MFS-22323-1] c 37 N76-14463
 Positive isolation disconnect
 [NASA-CASE-MSC-16043-1] c 37 N79-11402
 Space probe/satellite ejection apparatus for spacecraft
 [NASA-CASE-MFS-15429-1] c 18 N84-22609
 Slide release mechanism --- for space shuttle orbiter/external tank connection device
 [NASA-CASE-MSC-20080-1] c 37 N85-30334
 Space probe/satellite ejection apparatus for spacecraft
 [NASA-CASE-MFS-25429-1] c 18 N86-20469
 Self-locking double retention redundant full pin release
 [NASA-CASE-NPO-16233-1] c 37 N86-20801
 Preloadable vector sensitive latch
 [NASA-CASE-MSC-20910-1] c 37 N87-25582
 Toggle release
 [NASA-CASE-MSC-21354-1] c 37 N88-24969

DISCONTINUITY

Strain coupled servo control system Patent
 [NASA-CASE-XLA-08530] c 32 N71-25360

DISCRIMINATORS

- Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Comparator for the comparison of two binary numbers Patent
[NASA-CASE-XNP-04819] c 08 N71-23295
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

DISKS

- Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443

DISPENSERS

- Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310
- Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
- Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178
- Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048

DISPERSING

- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

DISPERSIONS

- Preparation of alkali metal dispersions
[NASA-CASE-XNP-08876] c 17 N73-28573

DISPLACEMENT

- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

DISPLACEMENT MEASUREMENT

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338
- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

DISPLAY DEVICES

- Integrated time shared instrumentation display Patent
[NASA-CASE-XLA-01952] c 08 N71-12507
- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Display for binary characters Patent
[NASA-CASE-XGS-04987] c 08 N71-20571
- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Analog signal integration and reconstruction system Patent
[NASA-CASE-NPO-10344] c 10 N71-26544
- Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
- System for quantizing graphic displays
[NASA-CASE-NPO-10745] c 08 N72-22164
- Digital video display system using cathode ray tube
[NASA-CASE-NPO-11342] c 09 N72-25248
- Scientific experiment flexible mount
[NASA-CASE-MS-C-12372-1] c 31 N72-25842
- Display system
[NASA-CASE-ERC-10350] c 14 N73-20474

Transparent switchboard

- [NASA-CASE-MS-C-13746-1] c 10 N73-32143
- Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
- System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Aircraft liftemeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413
- Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678
- Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

DISSIPATION

- Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

DISSOCIATION

- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607

DISSOLVING

- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458

DISTANCE MEASURING EQUIPMENT

- Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681
- Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
- Method and apparatus for measuring distance
[NASA-CASE-MS-C-20912-1] c 32 N88-26568
- Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DISTILLATION EQUIPMENT

- Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

DISTRIBUTED AMPLIFIERS

- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415

DISTRIBUTED PROCESSING

- Distributed multipoint memory architecture
[NASA-CASE-NPO-15342-1] c 60 N83-32342
- A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MS-C-21348-1] c 62 N89-24084
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

DISTRIBUTION (PROPERTY)

- Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

DISTRIBUTORS

- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332

DIVERGENT NOZZLES

- Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

DIVERTERS

- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468

DIVIDERS

- A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836

DOCUMENT STORAGE

- File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908

DOMES (STRUCTURAL FORMS)

- Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

DOORS

- Emergency escape system Patent
[NASA-CASE-MS-C-12086-1] c 05 N71-12345
- CAM controlled retractable door latch
[NASA-CASE-MS-C-20304-1] c 37 N82-31690

DOPES

- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

DOPPLER EFFECT

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
- Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379

DOPPLER RADAR

- Cooperative Doppler radar system Patent
[NASA-CASE-LAR-10403] c 21 N71-11766
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MS-C-18675-1] c 32 N84-22820

DOSIMETERS

- Dosimeter for high levels of absorbed radiation Patent
[NASA-CASE-XLA-03645] c 14 N71-20430
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

DOWNLINKING

- A VLSI single-chip (225,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N88-27220

DRAG CHUTES

- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147

DRAG MEASUREMENT

Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-00755] c 01 N71-13410
Minimum induced drag airfoil body Patent
[NASA-CASE-XLA-05828] c 01 N71-13411
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057

DRAG REDUCTION

Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856
Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

DRIFT (INSTRUMENTATION)

Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

DRILL BITS

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186

DRILLING

Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491
Adjustable depth gage
[NASA-CASE-LEW-14880-1] c 35 N90-10415

DRILLS

Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

DRIVES

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

DROP TOWERS

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

DROPS (LIQUIDS)

Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N88-25356
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N88-25357

DRUGS

Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086

DRYING

Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

DRYING APPARATUS

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080

DUCTED FANS

Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DUCTILITY

Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540

DUCTS

Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818

DURABILITY

Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

DUST COLLECTORS

Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

DYE LASERS

Infrared tunable laser
[NASA-CASE-ARC-10463-1] c 09 N73-32111
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655

DYES

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

DYNAMIC CHARACTERISTICS

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

DYNAMIC CONTROL

Motion restraining device
[NASA-CASE-NPO-13619-1] c 37 N78-16369
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

DYNAMIC LOADS

Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

DYNAMIC MODELS

Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846

DYNAMIC MODULUS OF ELASTICITY

Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

DYNAMIC RESPONSE

Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095

DYNAMIC STRUCTURAL ANALYSIS

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

DYNAMIC TESTS

Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

DYNAMICAL SYSTEMS

Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052

Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

DYNAMOMETERS

Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

E

EAR

Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

EARPHONES

Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953

EARTH ATMOSPHERE

Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991

EARTH CRUST

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

EARTH IONOSPHERE

Ionospheric battery Patent
[NASA-CASE-XGS-01593] c 03 N70-35408

EARTH ORBITS

High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

ECCENTRICS

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

ECHELLE GRATINGS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

ECHO SOUNDING

Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

ECHOES

Miniature implantable ultrasonic echosonometer
[NASA-CASE-ARC-11035-1] c 52 N79-18580
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

EDDY CURRENTS

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

EDGES

Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

EDUCATION

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

EFFICIENCY

Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

EFFLUENTS

Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285

EGRESS

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724

EJECTION

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

EJECTION SEATS

Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

EJECTORS

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ELASTIC BODIES**
- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- ELASTIC DEFORMATION**
- Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781
- Means for suppressing or attenuating bending motion of elastic bodies Patent
[NASA-CASE-XAC-05632] c 32 N71-23971
- ELASTIC MEDIA**
- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- ELASTIC PROPERTIES**
- Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- ELASTIC SHEETS**
- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- ELASTOMERS**
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864
- Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
- Method of making hollow elastomeric bodies
[NASA-CASE-NPO-13535-1] c 37 N76-31524
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515
- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259
- The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
- Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Electro-explosive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833
- Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- ELBOW (ANATOMY)**
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- ELECTRIC ARCS**
- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
- High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
- Welding torch gas cup extension
[NASA-CASE-MFS-29252-1] c 37 N88-23980
- ELECTRIC AUTOMOBILES**
- Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- ELECTRIC BATTERIES**
- Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Coulometer and third electrode battery charging circuit Patent
[NASA-CASE-GSC-10487-1] c 03 N71-24719
- Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579
- Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020
- Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
- Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-11315-2] c 27 N81-24257
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
- Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
- Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011
- ELECTRIC BRIDGES**
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Infinite range electronics gain control circuit
[NASA-CASE-GSC-10786-1] c 10 N72-28241
- Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-2] c 33 N75-25041
- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- ELECTRIC CELLS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Heat activated cell with alkali anode and alkali salt electrolyte Patent
[NASA-CASE-LEW-11358] c 03 N71-26084
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- ELECTRIC CHARGE**
- Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- Automatic battery charger Patent
[NASA-CASE-XNP-04758] c 03 N71-24605
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- ELECTRIC CHOPPERS**
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- ELECTRIC COILS**
- Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
- ELECTRIC CONDUCTORS**
- Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Shielded conductor cable system
[NASA-CASE-MSC-12745-1] c 33 N81-27397
- ELECTRIC CONNECTORS**
- Connector - Electrical
[NASA-CASE-XLA-01288] c 09 N69-21470
- Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
- Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
- Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
- Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256

- Use of unilluminated solar cells as shunt diodes for a solar array
 [NASA-CASE-GSC-10344-1] c 03 N72-27053
 Electrical connector
 [NASA-CASE-MFS-20757] c 09 N72-28225
 Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
 [NASA-CASE-MFS-22133-1] c 33 N74-26977
 Connector --- for connecting circuits on different layers of multilayer printed circuit boards
 [NASA-CASE-LAR-11709-1] c 37 N76-27567
 Percutaneous connector device
 [NASA-CASE-KSC-10849-1] c 52 N77-14738
 Magnetic electrical connectors for biomedical percutaneous implants
 [NASA-CASE-KSC-11030-1] c 52 N77-25772
 Decommutator patchboard verifier
 [NASA-CASE-KSC-11065-1] c 33 N81-26359
 Electrical self-aligning connector --- orbital servicer vehicles
 [NASA-CASE-MFS-25211-2] c 33 N84-14423
 Four-terminal electrical testing device --- initiator bridgwire resistance
 [NASA-CASE-MSC-21166-1] c 35 N87-25555
 Coaxial cable connector
 [NASA-CASE-NPO-16764-1-CU] c 33 N88-14270
- ELECTRIC CONTACTS**
 Solid state switch
 [NASA-CASE-XNP-09228] c 09 N69-27500
 Deflective rod switch with elastic support and sealing means Patent
 [NASA-CASE-XNP-09808] c 09 N71-12518
 Method of making electrical contact on silicon solar cell and resultant product Patent
 [NASA-CASE-XLE-04787] c 03 N71-20492
 Continuous turning slip ring assembly Patent
 [NASA-CASE-XMF-01049] c 15 N71-23049
 Electrical connector
 [NASA-CASE-MFS-20757] c 09 N72-28225
 Electrostatic measurement system --- for contact-electrifying a dielectric
 [NASA-CASE-MFS-22129-1] c 33 N75-18477
 Process for preparing liquid metal electrical contact device
 [NASA-CASE-LEW-11978-1] c 33 N77-26385
 Non-contacting power transfer device
 [NASA-CASE-GSC-12595-1] c 33 N82-24422
 Solar cell having improved back surface reflector
 [NASA-CASE-LEW-13620-1] c 44 N83-13579
 Screen printed interdigitated back contact solar cell
 [NASA-CASE-LEW-13414-1] c 44 N85-20530
 Cross-contact chain
 [NASA-CASE-NPO-16784-1] c 33 N87-10231
- ELECTRIC CONTROL**
 Increasing efficiency of switching type regulator circuits Patent
 [NASA-CASE-XMS-09352] c 09 N71-23316
 Adjustable indicating device for load position
 [NASA-CASE-MFS-28008-1] c 35 N85-20300
- ELECTRIC CURRENT**
 Didymium hydrate additive to nickel hydroxide electrodes Patent
 [NASA-CASE-XGS-03505] c 03 N71-10608
 Electrical load protection device Patent
 [NASA-CASE-MSC-12135-1] c 09 N71-12526
 Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
 [NASA-CASE-XNP-00384] c 09 N71-13530
 Connector internal force gauge Patent
 [NASA-CASE-XNP-03918] c 14 N71-23087
 Pulse modulator providing fast rise and fall times Patent
 [NASA-CASE-XMS-04919] c 09 N71-23270
 Polarity sensitive circuit Patent
 [NASA-CASE-XNP-00952] c 10 N71-23271
 Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
 [NASA-CASE-XLE-04535] c 03 N71-23354
 Color television systems using a single gun color cathode ray tube Patent
 [NASA-CASE-ERC-10098] c 09 N71-28618
 Current dependent filter inductance
 [NASA-CASE-ERC-10139] c 09 N72-17154
 High voltage transistor amplifier with constant current load
 [NASA-CASE-NPO-11023] c 09 N72-17155
 Current steering commutator
 [NASA-CASE-NPO-10743] c 08 N72-21199
 Saturation current protection apparatus for saturable core transformers
 [NASA-CASE-ERC-10075-2] c 09 N72-22196
 Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
 [NASA-CASE-NPO-11388] c 03 N72-23048

- Load current sensor for a series pulse width modulated power supply
 [NASA-CASE-GSC-10656-1] c 09 N72-25249
 Method and apparatus for limiting field emission current
 [NASA-CASE-ERC-10015-2] c 10 N72-27246
 Deposition apparatus
 [NASA-CASE-LAR-10541-1] c 15 N72-32487
 Lightning current measuring systems
 [NASA-CASE-KSC-10807-1] c 33 N75-26246
 Overload protection system for power inverter
 [NASA-CASE-NPO-13872-1] c 33 N78-10377
 Shunt regulation electric power system
 [NASA-CASE-GSC-10135] c 33 N78-17296
 Lightning current waveform measuring system
 [NASA-CASE-KSC-11018-1] c 33 N79-10337
 Electroexplosive device
 [NASA-CASE-NPO-13858-1] c 28 N79-11231
 Remote lightning monitor system
 [NASA-CASE-KSC-11031-1] c 33 N79-11315
 Lightning current detector
 [NASA-CASE-KSC-11057-1] c 33 N79-14305
 Driver for solar cell I-V characteristic plots
 [NASA-CASE-NPO-14096-1] c 44 N80-18551
 Electrical power generating system --- for windpowered generation
 [NASA-CASE-MFS-24368-3] c 33 N81-22280
 Trace water sensor
 [NASA-CASE-NPO-15722-1] c 35 N85-29212
 Magnetic spin reduction system for free spinning objects
 [NASA-CASE-MFS-25966-1] c 16 N86-26352
 Four quadrant control circuit for a brushless three-phase dc motor
 [NASA-CASE-MFS-28080-1] c 33 N87-21233
 Electro-expulsive separation system
 [NASA-CASE-ARC-11613-1] c 33 N87-28833
- ELECTRIC DISCHARGES**
 Electrical discharge apparatus for forming Patent
 [NASA-CASE-XMF-00375] c 15 N70-34249
 High voltage pulse generator Patent
 [NASA-CASE-MSC-12178-1] c 09 N71-13518
 Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
 [NASA-CASE-XNP-00745] c 10 N71-28960
 Rapidly pulsed, high intensity, incoherent light source
 [NASA-CASE-XLE-2529-3] c 33 N74-20859
 Voltage feed through apparatus having reduced partial discharge
 [NASA-CASE-GSC-12347-1] c 33 N80-18286
 Electrostatic discharge test apparatus
 [NASA-CASE-MSC-21094-1] c 35 N88-24941
 Method and apparatus for determining time, direction and composition of impacting space particles
 [NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
- ELECTRIC ENERGY STORAGE**
 Apparatus for measuring current flow Patent
 [NASA-CASE-XGS-02439] c 14 N71-19431
 Lead-oxygen dc power supply system having a closed loop oxygen and water system
 [NASA-CASE-MFS-23059-1] c 44 N76-27664
 Electrically rechargeable REDOX flow cell
 [NASA-CASE-LEW-12220-1] c 44 N77-14581
 Gels as battery separators for soluble electrode cells
 [NASA-CASE-LEW-12364-1] c 44 N77-22606
 Electrochemical cell for rebalancing REDOX flow system
 [NASA-CASE-LEW-13150-1] c 44 N79-26474
 Toroidal cell and battery --- storage battery for high amp-hour load applications
 [NASA-CASE-LEW-12918-1] c 44 N81-24521
- ELECTRIC EQUIPMENT**
 Ac power amplifier Patent Application
 [NASA-CASE-LAR-10218-1] c 09 N70-34559
 Generator for a space power system Patent
 [NASA-CASE-XLE-04250] c 09 N71-20446
 High impedance measuring apparatus Patent
 [NASA-CASE-XMS-08589-1] c 09 N71-20569
 Regulated power supply Patent
 [NASA-CASE-XMS-01991] c 09 N71-21449
 Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
 [NASA-CASE-XLA-02810] c 14 N71-25901
 Buck boost voltage regulation circuit Patent
 [NASA-CASE-GSC-10735-1] c 10 N71-26085
 Electronically resettable fuse Patent
 [NASA-CASE-XGS-11177] c 09 N71-27001
 Voltage regulator Patent
 [NASA-CASE-ERC-10113] c 09 N71-27053
 Digital pulse width selection circuit Patent
 [NASA-CASE-XLA-07788] c 09 N71-29139
 Solar energy powered heliotrope
 [NASA-CASE-GSC-10945-1] c 21 N72-31637

- Temperature compensated light source using a light emitting diode
 [NASA-CASE-ARC-10467-1] c 09 N73-14214
 Hermetically sealed semiconductor
 [NASA-CASE-GSC-10791-1] c 15 N73-14469
 Overvoltage protection network
 [NASA-CASE-ARC-10197-1] c 33 N74-17929
 Sprag solenoid brake --- development and operations of electrically controlled brake
 [NASA-CASE-MFS-21846-1] c 37 N74-26976
 Shock absorbing mount for electrical components
 [NASA-CASE-NPO-13253-1] c 37 N75-18573
 Self-regulating proportionally controlled heating apparatus and technique
 [NASA-CASE-GSC-11752-1] c 77 N75-20140
- ELECTRIC EQUIPMENT TESTS**
 Test fixture for pellet-like electrical elements
 [NASA-CASE-XNP-06032] c 09 N69-21926
 Pulse amplitude and width detector Patent
 [NASA-CASE-XMF-06519] c 09 N71-12519
 High power-high voltage waterload Patent
 [NASA-CASE-XNP-05381] c 09 N71-20842
- ELECTRIC FIELD STRENGTH**
 Apparatus for field strength measurement of a space vehicle Patent
 [NASA-CASE-XLE-00820] c 14 N71-16014
 Apparatus for measuring electric field strength on the surface of a model vehicle Patent
 [NASA-CASE-XLE-02038] c 09 N71-16086
 Floating two force component measuring device Patent
 [NASA-CASE-XAC-04885] c 14 N71-23790
 Apparatus for determining the deflection of an electron beam impinging on a target Patent
 [NASA-CASE-XMF-06617] c 09 N71-24843
- ELECTRIC FIELDS**
 Minimum induced drag airfoil body Patent
 [NASA-CASE-XLA-00755] c 01 N71-13410
 Minimum induced drag airfoil body Patent
 [NASA-CASE-XLA-05828] c 01 N71-13411
 Instrument for measuring potentials on two dimensional electric field plots Patent
 [NASA-CASE-XLA-08493] c 10 N71-19421
 Electron beam instrument for measuring electric fields Patent
 [NASA-CASE-XMF-10289] c 14 N71-23699
 Field ionization electrodes Patent
 [NASA-CASE-ERC-10013] c 09 N71-26678
 Determining distance to lightning strokes from a single station
 [NASA-CASE-KSC-10698] c 07 N73-20175
 Rocket borne instrument to measure electric fields inside electrified clouds
 [NASA-CASE-KSC-10730-1] c 14 N73-32318
 Electric field measuring and display system --- for cloud formations
 [NASA-CASE-KSC-10731-1] c 33 N74-27862
 Lightning discharge identification system
 [NASA-CASE-KSC-11099-1] c 47 N82-24779
 Maser cavity servo-tuning system
 [NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
 Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
 [NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
- ELECTRIC FILTERS**
 Static inverters which sum a plurality of waves Patent
 [NASA-CASE-XMF-00663] c 08 N71-18752
 Remodulator filter Patent
 [NASA-CASE-NPO-10198] c 09 N71-24806
 RC networks and amplifiers employing the same
 [NASA-CASE-XAC-05462-2] c 10 N72-17171
 Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
 [NASA-CASE-ARC-10192] c 09 N72-21245
 Radio frequency filter device
 [NASA-CASE-XLA-02609] c 09 N72-25256
 Filter for third order phase locked loops
 [NASA-CASE-NPO-11941-1] c 10 N73-27171
- ELECTRIC FURNACES**
 High gradient directional solidification furnace
 [NASA-CASE-MFS-25963-1] c 35 N86-20750
- ELECTRIC FUSES**
 Electrical load protection device Patent
 [NASA-CASE-MSC-12135-1] c 09 N71-12526
 Diode and protection fuse unit Patent
 [NASA-CASE-XKS-03381] c 09 N71-22796
 Fused switch
 [NASA-CASE-XMS-01244-1] c 33 N79-33393
- ELECTRIC GENERATORS**
 Regulated dc to dc converter
 [NASA-CASE-XGS-03429] c 03 N69-21330
 Generator for a space power system Patent
 [NASA-CASE-XLE-04250] c 09 N71-20446
 Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
 [NASA-CASE-XGS-03427] c 10 N71-23029

- Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Electromagnetic wave energy converter
[NASA-CASE-GSC-11394-1] c 09 N73-32109
- Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
- Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
- Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
- Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
- Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- ELECTRIC IGNITION**
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
- ELECTRIC MOTOR VEHICLES**
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- ELECTRIC MOTORS**
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
- Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
- Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
- Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
- Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
- Dual polarity full wave dc motor drive Patent
[NASA-CASE-XNP-07477] c 09 N71-26092
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
- Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
- Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
- Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- ELECTRIC NETWORKS**
Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
- Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- ELECTRIC POTENTIAL**
Method and apparatus for battery charge control Patent
[NASA-CASE-XGS-05432] c 03 N71-19438
- Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
- Load-insensitive electrical device
[NASA-CASE-XER-11046] c 09 N72-22203
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313
- Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442
- ELECTRIC POWER**
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- High power-high voltage waterload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
- ELECTRIC POWER PLANTS**
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- ELECTRIC POWER SUPPLIES**
Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
- Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
- Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942
- Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
- ELECTRIC POWER TRANSMISSION**
Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- Powerplexer
[NASA-CASE-MSC-12396-1] c 03 N73-31988
- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- ELECTRIC PROPULSION**
Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- ELECTRIC PULSES**
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
- Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Solid state pulse generator with constant output width, for variable input width, in nanosecond range Patent
[NASA-CASE-XGS-03427] c 10 N71-23029
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- ELECTRIC RELAYS**
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39987
- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625

ELECTRIC ROCKET ENGINES

Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822

ELECTRIC SPARKS

Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

ELECTRIC STIMULI

Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733

ELECTRIC SWITCHES

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Cyclic switch Patent
[NASA-CASE-LEW-10155-1] c 09 N71-29035
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
Fused switch
[NASA-CASE-XMS-01244-1] c 33 N79-33393
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

ELECTRIC TERMINALS

Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Electrical connector for flat cables Patent
[NASA-CASE-XMF-00324] c 09 N70-34596
Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Radio frequency filter device
[NASA-CASE-XLA-02609] c 09 N72-25256
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977

ELECTRIC WELDING

Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

ELECTRIC WIRE

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226

Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947

ELECTRICAL ENGINEERING

Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

ELECTRICAL FAULTS

Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
Shared memory for a fault-tolerant computer
[NASA-CASE-NPO-13139-1] c 60 N76-21914
Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

ELECTRICAL IMPEDANCE

High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

ELECTRICAL INSULATION

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Bio-isolated dc operational amplifier --- for bioelectric measurements
[NASA-CASE-ARC-10596-1] c 33 N74-21851
Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366
Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419
Coaxial cable connector
[NASA-CASE-NPO-16764-1-CU] c 33 N88-14270

ELECTRICAL MEASUREMENT

Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Ablation sensor Patent
[NASA-CASE-XLA-01794] c 33 N71-21586
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Connector internal force gauge Patent
[NASA-CASE-XNP-03918] c 14 N71-23087
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
Rapid activation and checkout device for batteries
[NASA-CASE-MFS-22749-1] c 44 N76-14601

Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

ELECTRICAL PROPERTIES

Drift compensation circuit for analog to digital converter Patent
[NASA-CASE-XNP-04780] c 08 N71-19687
Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
Storage battery comprising negative plates of a wedge shaped configuration --- for preventing shape change induced malfunctions
[NASA-CASE-NPO-11806-1] c 44 N74-19693
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

ELECTRICAL RESISTANCE

Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

ELECTRICAL RESISTIVITY

GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
High temperature electric arc furnace
[NASA-CASE-MFS-28281-1] c 09 N88-28938
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

ELECTRICITY

- Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

ELECTRO-OPTICS

- Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Polarimeter for remote measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Ultrastable calibrated light source
[NASA-CASE-MS-C-12293-1] c 14 N72-27411
Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

ELECTROACOUSTIC TRANSDUCERS

- Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
CDS solid state phase insensitive ultrasonic transducer --- annealing dadium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

ELECTROACOUSTIC WAVES

- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606

ELECTROCARDIOGRAPHY

- Phonocardiogram simulator Patent
[NASA-CASE-XKS-10804] c 05 N71-24606
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-C-14339-1] c 05 N75-24716
Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612

ELECTROCATALYSTS

- Electrocatalyst for oxygen reduction
[NASA-CASE-HQN-10537-1] c 06 N72-10138
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487
Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

ELECTROCHEMICAL CELLS

- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
Electric battery and method for operating same Patent
[NASA-CASE-XGS-01674] c 03 N71-29129
Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108
Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
Electrical conductivity cell and method for fabricating the same
[NASA-CASE-ARC-10810-1] c 33 N76-19339
Multi-cell battery protection system
[NASA-CASE-LEW-12039-1] c 44 N78-14625
Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Electrochemical cell for rebalancing REDOX flow system
[NASA-CASE-LEW-13150-1] c 44 N79-26474

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680

ELECTROCHEMICAL MACHINING

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

ELECTROCHEMICAL OXIDATION

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

ELECTROCHEMISTRY

Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124

ELECTRODE FILM BARRIERS

Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313

ELECTRODE MATERIALS

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738

ELECTRODEPOSITION

Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043

Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948

Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684

Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235

ELECTRODES

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Electrode for biological recording
[NASA-CASE-XMS-02872] c 05 N69-21925
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786

Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666

Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922

Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618

Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Pressed disc type sensing electrodes with ion-screening means Patent
[NASA-CASE-XMS-04212-1] c 05 N71-12346

Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492

Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987

Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093

Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

Plated electrodes Patent
[NASA-CASE-XMS-04213-1] c 09 N71-26002

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MS-C-90153-2] c 05 N72-25120

Method of making dry electrodes
[NASA-CASE-FRC-10029-2] c 05 N72-25121

Compressible biomedical electrode
[NASA-CASE-MS-C-13648] c 05 N72-27103

Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246

Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
[NASA-CASE-MFS-20589] c 25 N72-32688

Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783

Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150

Porous electrode comprising a bonded stack of pieces of corrugated metal foil
[NASA-CASE-GSC-11368-1] c 09 N73-32108

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MS-C-14339-1] c 05 N75-24716

Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525

Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606

Snap-in compressible biomedical electrode
[NASA-CASE-MS-C-14623-1] c 52 N77-28717

Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395

Toroidal cell and battery --- storage battery for high amp-hour load applications
[NASA-CASE-LEW-12918-1] c 44 N81-24521

Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524

Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268

Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415

Alkaline electrochemical cells and method of making
[NASA-CASE-GSC-10349-1] c 44 N82-24645

Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175

Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262

Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

Spillage detector for liquid chromatography systems
[NASA-CASE-MS-C-20206-1] c 25 N86-27431

Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

ELECTRODIALYSIS

Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370

ELECTROFORMING

Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

ELECTROHYDRAULIC FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

ELECTROHYDRODYNAMICS

Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332

ELECTROKINETICS

Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226

ELECTROLUMINESCENCE

Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

ELECTROLYSIS

Passively regulated water electrolysis rocket engine
Patent

[NASA-CASE-XGS-08729] c 28 N71-14044
Combined electrolysis device and fuel cell and method
of operation Patent

[NASA-CASE-XLE-01645] c 03 N71-20904
Polymeric electrolytic hygrometer

[NASA-CASE-NPO-13948-1] c 35 N78-25391

ELECTROLYTES

Apparatus for measuring swelling characteristics of
membranes

[NASA-CASE-XGS-03865] c 14 N69-21363
Electrolytically regenerative hydrogen-oxygen fuel cell

Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

Sealed electrochemical cell provided with a flexible
casing Patent

[NASA-CASE-XGS-01513] c 03 N71-23336
Compressible biomedical electrode

[NASA-CASE-MS-13648] c 05 N72-27103
Solid electrolyte cell

[NASA-CASE-NPO-15269-1] c 44 N82-29710
Chromium electrodes for REDOX cells

[NASA-CASE-LEW-13653-1] c 44 N84-28205
Trace water sensor

[NASA-CASE-NPO-15722-1] c 35 N85-29212

ELECTROLYTIC CELLS

Method of making emf cell
[NASA-CASE-LEW-11359-2] c 03 N72-20034

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252

Reconstituted asbestos matrix --- for use in fuel or
electrolysis cells

[NASA-CASE-MS-12568-1] c 24 N76-14204
Catalyst surfaces for the chromous/chromic redox

couple
[NASA-CASE-LEW-13148-1] c 33 N80-20487

Cell and method for electrolysis of water and anode
[NASA-CASE-MS-16394-1] c 28 N81-24280

Toroidal cell and battery --- storage battery for high
amp-hour load applications

[NASA-CASE-LEW-12918-1] c 44 N81-24521
Solid electrolyte cell

[NASA-CASE-NPO-15269-1] c 44 N82-29710
State-of-charge coulometer

[NASA-CASE-NPO-15759-1] c 35 N85-21596

ELECTROMAGNETIC ABSORPTION

Multiple pass reimagining optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741

Method and apparatus for background signal reduction
in opto-acoustic absorption measurement

[NASA-CASE-NPO-13683-1] c 35 N77-14411
Electromagnetic radiation energy arrangement ---

coatings for solar energy absorption and infrared
reflection

[NASA-CASE-WOO-00428-1] c 32 N79-19186
Electromagnetic power absorber

[NASA-CASE-NPO-13830-1] c 32 N80-14281
Method and apparatus for determining optical absorption

and emission characteristics of a crystal or non-crystalline
fiber

[NASA-CASE-LAR-13963-1] c 76 N89-14119

ELECTROMAGNETIC FIELDS

Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472

Vacuum evaporator with electromagnetic ion steering
Patent

[NASA-CASE-NPO-10331] c 09 N71-26701
Metallic intrusion detector system

[NASA-CASE-ARC-10265-1] c 10 N72-28240
Low power electromagnetic flowmeter providing

accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326

Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018

Microcomputerized electric field meter diagnostic and
calibration system

[NASA-CASE-KSC-11035-1] c 35 N78-28411

ELECTROMAGNETIC HAMMERS

Method and apparatus for precision sizing and joining
of large diameter tubes Patent

[NASA-CASE-XMF-05114] c 15 N71-17650
Magnetomotive metal working device Patent

[NASA-CASE-XMF-03793] c 15 N71-24833

ELECTROMAGNETIC INTERFERENCE

Sealed cabinetry Patent
[NASA-CASE-MS-12168-1] c 09 N71-18600

Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308

Method and apparatus for enhancing laser absorption
sensitivity

[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006
Method and apparatus for reducing speckle

[NASA-CASE-LAR-13771-1] c 36 N89-14428

ELECTROMAGNETIC MEASUREMENT

Method and apparatus for determining electromagnetic
characteristics of large surface area passive reflectors

Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Microcomputerized electric field meter diagnostic and
calibration system

[NASA-CASE-KSC-11035-1] c 35 N78-28411
Lightning discharge identification system

[NASA-CASE-KSC-11099-1] c 47 N82-24779

ELECTROMAGNETIC NOISE

Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258

Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244

Filtering device --- removing electromagnetic noise from
voice communication signals

[NASA-CASE-MFS-22729-1] c 32 N76-21366

ELECTROMAGNETIC PROPERTIES

Measurement apparatus and procedure for the
determination of surface emissivities

[NASA-CASE-LAR-13455-1] c 32 N87-21206

ELECTROMAGNETIC PROPULSION

Hypervelocity gun --- using both electric and chemical
energy for projectile propulsion

[NASA-CASE-XLE-03186-1] c 09 N79-21084

ELECTROMAGNETIC PULSES

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

ELECTROMAGNETIC PUMPS

Multiducted electromagnetic pump Patent
[NASA-CASE-NPO-10755] c 15 N71-27084

ELECTROMAGNETIC RADIATION

Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063

Circulator having quarter wavelength resonant post and
parametric amplifier circuits utilizing the same Patent

[NASA-CASE-XNP-02140] c 09 N71-23097
Electromagnetic polarization systems and methods

Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980

Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130

Method and apparatus for measuring electromagnetic
radiation

[NASA-CASE-LEW-11159-1] c 14 N73-28488
Hyperthermia heating apparatus --- cancer therapy

[NASA-CASE-NPO-14549-2] c 52 N82-33996
Method and apparatus for measuring distance

[NASA-CASE-MS-20912-1] c 32 N88-26568

ELECTROMAGNETIC SHIELDING

Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

Shielded conductor cable system
[NASA-CASE-MS-12745-1] c 33 N81-27397

ELECTROMAGNETIC WAVE FILTERS

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

ELECTROMAGNETIC WAVE TRANSMISSION

Method and apparatus for determining electromagnetic
characteristics of large surface area passive reflectors

Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Gyrotrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

ELECTROMAGNETISM

Detenting servomotor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695

Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067

Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337

ELECTROMAGNETS

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929

Position sensing device employing misaligned magnetic
field generating and detecting apparatus Patent

[NASA-CASE-XGS-07514] c 23 N71-16099
Safe-arm initiator Patent

[NASA-CASE-LAR-10372] c 09 N71-18599
Magnetic bearing --- for supplying magnetic fluxes

[NASA-CASE-GSC-11079-1] c 37 N75-18574

Magnetic spin reduction system for free spinning
objects

[NASA-CASE-MFS-25966-1] c 16 N86-26352
Permanent magnet flux-biased magnetic actuator with

flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

ELECTROMECHANICAL DEVICES

Electromechanical actuator
[NASA-CASE-XNP-05975] c 15 N69-23185

Bi-metallic power controlled actuator
[NASA-CASE-NXP-09776] c 09 N69-39929

Apparatus for coupling a plurality of ungrounded circuits
to a grounded circuit Patent

[NASA-CASE-XAC-00086] c 09 N70-33182
Apparatus for controlling the velocity of an

electromechanical drive for interferometers and the like
Patent

[NASA-CASE-XGS-03532] c 14 N71-17627
Mechanical actuator Patent

[NASA-CASE-XGS-04548] c 15 N71-24045
Transverse piezoresistance and pinch effect

electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635

Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387

Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314

Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423

Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711

Magnetic field control --- electromechanical torquing
device

[NASA-CASE-MFS-23828-1] c 33 N82-26569
Piezoelectric composite materials

[NASA-CASE-LEW-12582-1] c 76 N83-34796
Two-dimensional scanner apparatus --- flaw detector in

small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

ELECTROMETERS

Vibrating element electrometer with output signal
magnified over input signal by a function of the mechanical

Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659

ELECTROMIGRATION

Electromigration process for the purification of molten
silicon during crystal growth

[NASA-CASE-NPO-14831-1] c 76 N82-30105

ELECTROMOTIVE FORCES

Heat activated cell Patent
[NASA-CASE-LEW-11359] c 03 N71-28579

Three-phase power factor controller with induced EMF
sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661

ELECTRON ATTACHMENT

High resolution threshold photoelectron spectroscopy
by electron attachment

[NASA-CASE-NPO-14078-1] c 72 N80-14877
Reversal electron attachment ionizer for detection of

trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTRON BEAM WELDING

Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932

Device for preventing high voltage arcing in electron
beam welding Patent

[NASA-CASE-XMF-08522] c 15 N71-19486

ELECTRON BEAMS

Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677

Method and means for an improved electron beam
scanning system Patent

[NASA-CASE-ERC-10552] c 09 N71-12539
Electron beam instrument for measuring electric fields

Patent
[NASA-CASE-XMF-10289] c 14 N71-23699

Apparatus for determining the deflection of an electron
beam impinging on a target Patent

[NASA-CASE-XMF-06617] c 09 N71-24843
Infrared detectors

[NASA-CASE-LAR-10728-1] c 14 N73-12445

- Electron beam controller --- using magnetic field to relocate spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
- Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- ELECTRON BOMBARDMENT**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- ELECTRON CAPTURE**
Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- ELECTRON DISTRIBUTION**
Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156
- ELECTRON EMISSION**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- ELECTRON ENERGY**
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- ELECTRON FLUX DENSITY**
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- ELECTRON GUNS**
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
- ELECTRON IRRADIATION**
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
- ELECTRON MICROSCOPES**
Device for measuring electron-beam intensities and for subjecting materials to electron irradiation in an electron microscope
[NASA-CASE-XGS-01725] c 14 N69-39982
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- ELECTRON MICROSCOPY**
Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- ELECTRON OSCILLATIONS**
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- ELECTRON PHOTON CASCADES**
Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- ELECTRON PLASMA**
Method and apparatus for producing a plasma Patent
[NASA-CASE-LA-00147] c 25 N70-34661
- ELECTRON SCATTERING**
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- ELECTRON SOURCES**
Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- ELECTRON TRANSFER**
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- ELECTRON TRANSITIONS**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- ELECTRON TUBES**
Direct radiation cooling of the collector of linear beam tubes
[NASA-CASE-XNP-09227] c 15 N69-24319
- Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Gyrottron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
- ELECTRON TUNNELING**
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- ELECTRONIC CONTROL**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic motor control system Patent
[NASA-CASE-XMF-01129] c 09 N70-38712
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
- Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185
- Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- ELECTRONIC EQUIPMENT**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
- Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
- Circulator having quarter wavelength resonant post and parametric amplifier circuits utilizing the same Patent
[NASA-CASE-XNP-02140] c 09 N71-23097
- Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
- Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Lead attachment to high temperature devices
[NASA-CASE-ERC-10224] c 09 N72-25261
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- Versatile arithmetic unit for high speed sequential decoder
[NASA-CASE-NPO-11371] c 08 N73-12177
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Electronic analog divider
[NASA-CASE-LEW-11881-1] c 33 N77-17354
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- ELECTRONIC EQUIPMENT TESTS**
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- Decommutator patchboard verifier
[NASA-CASE-KSC-11065-1] c 33 N81-26359
- Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- ELECTRONIC FILTERS**
Self-tuning bandpass filter
[NASA-CASE-ARC-10264-1] c 09 N73-20231
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307
- ELECTRONIC MODULES**
Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- ELECTRONIC PACKAGING**
Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522
- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839

Electronic scanning pressure measuring system and transducer package

- [NASA-CASE-ARC-11361-1] c 35 N84-22934
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941

ELECTRONIC RECORDING SYSTEMS

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

ELECTRONIC TRANSDUCERS

- Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934

ELECTRONS

- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

ELECTROPHORESIS

- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-26603

ELECTROPHOTOMETERS

- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

ELECTROPHYSIOLOGY

- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618

ELECTROPLATING

- Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
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[NASA-CASE-LEW-13148-2] c 44 N81-29524
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[NASA-CASE-LEW-13132-1] c 27 N83-29388

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- Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent
[NASA-CASE-XAC-05506-1] c 24 N71-16095
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- [NASA-CASE-ARC-11245-1] c 28 N82-18401
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[NASA-CASE-LAR-13470-1] c 03 N88-14083

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- Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
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[NASA-CASE-LEW-10814-1] c 28 N70-35422
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[NASA-CASE-XLE-00376] c 28 N70-37245
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
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[NASA-CASE-LEW-13935-1] c 33 N87-21234

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- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
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[NASA-CASE-NPO-15553-1] c 33 N85-29142

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- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
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[NASA-CASE-LAR-12552-1] c 35 N82-11431

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- Apparatus for field strength measurement of a space vehicle Patent
[NASA-CASE-XLE-00820] c 14 N71-16014
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[NASA-CASE-LAR-12465-1] c 33 N82-26572

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- Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
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- Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
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[NASA-CASE-MSC-12745-1] c 33 N81-27397
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

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- Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522
Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
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[NASA-CASE-MFS-28294-1] c 31 N90-10310

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- Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875

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- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
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[NASA-CASE-ARC-11363-1] c 31 N87-16918

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- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
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[NASA-CASE-KSC-10513] c 15 N72-25453

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- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088

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- Ellipsograph for pantograph Patent
[NASA-CASE-XLA-03102] c 14 N71-21079

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- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

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- Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
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[NASA-CASE-LAR-11825-1] c 35 N77-22449
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[NASA-CASE-LEW-14698-2] c 27 N90-15262

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- Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844

Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397

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- Method and apparatus for non-destructive testing of temper embrittlement in steels
[NASA-CASE-LAR-13817-1] c 26 N88-29012

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Silent emergency alarm system for schools and the like

- [NASA-CASE-NPO-11307-1] c 10 N73-30205
Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
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[NASA-CASE-MSC-21332-1] c 03 N89-11724

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- Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

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- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
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[NASA-CASE-MFS-21042] c 07 N72-25171
Emergency descent device
[NASA-CASE-MFS-23074-1] c 54 N77-21844
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- Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

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- Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

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- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875

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- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112

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- Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

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- Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

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- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
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[NASA-CASE-XGS-05180] c 18 N71-25881
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[NASA-CASE-ERC-10150] c 14 N71-28992
Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
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[NASA-CASE-LEW-12185-1] c 44 N78-25528
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N89-13728

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- Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
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[NASA-CASE-MSC-18866-1] c 35 N85-29213

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- Pneumatic inflatable end effector
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[NASA-CASE-MFS-25906-1] c 37 N86-20789
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[NASA-CASE-MFS-28161-1] c 37 N87-18817
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[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
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[NASA-CASE-MSC-21476-1] c 37 N90-17137

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- Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452

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- ENEMY PERSONNEL**
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- ENERGY ABSORPTION**
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[NASA-CASE-XLE-00810] c 15 N70-34861
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[NASA-CASE-MSC-12279-1] c 15 N70-35679
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[NASA-CASE-XLE-00720] c 14 N70-40201
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[NASA-CASE-XMF-10040] c 15 N71-22877
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[NASA-CASE-NPO-10671] c 15 N72-20443
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[NASA-CASE-MFS-20863] c 31 N73-26876
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- ENERGY DISSIPATION**
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[NASA-CASE-XLA-00754] c 15 N70-34850
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[NASA-CASE-LAR-11645-1] c 02 N77-10001
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- ENERGY SOURCES**
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- Solar energy collection system
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[NASA-CASE-XMF-01096] c 10 N71-16030
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[NASA-CASE-ARC-10456-1] c 05 N75-12930
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[NASA-CASE-LEW-12907-2] c 07 N81-19115
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603
Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- ENGINE COOLANTS**
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- ENGINE DESIGN**
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[NASA-CASE-XNP-02923] c 28 N71-23081
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[NASA-CASE-MSC-12561-1] c 18 N76-17185
Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
Method and apparatus for rapid thrust increases in a turbofan engine
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Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
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[NASA-CASE-NPO-14221-1] c 37 N81-25370
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[NASA-CASE-LAR-12148-1] c 44 N82-24640
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[NASA-CASE-XNP-02592] c 24 N71-20518
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[NASA-CASE-LAR-13280-1] c 08 N87-20999
- ENGINE INLETS**
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[NASA-CASE-LAR-10642-1] c 07 N74-31270
The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- ENGINE MONITORING INSTRUMENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

ENGINE NOISE

ENGINE NOISE

- Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
- Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

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- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Gas path seal
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- Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
- Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981

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- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
[NASA-CASE-FRC-10113-1] c 33 N80-26599

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- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844

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- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986

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- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156

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- Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

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- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604

ENVIRONMENT SIMULATION

- Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
- Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619

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- Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

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- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
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- Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
- Air conditioned suit
[NASA-CASE-LAR-10076-1] c 05 N73-20137
- Dual stage check valve
[NASA-CASE-MS-C-13587-1] c 15 N73-30459
- Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750

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- Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

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- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603
- Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561

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- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

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- Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

ENZYME ACTIVITY

- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052

ENZYMES

- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086

EPICYCLOIDS

- Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377

EPITAXY

- Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
- Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

EPOXY COMPOUNDS

- Synthesis of siloxane-containing epoxy polymers Patent
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Siloxane containing epoxide compounds
[NASA-CASE-MFS-13994-2] c 06 N72-25148
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043
- Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

EPOXY MATRIX COMPOSITES

- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451

EPOXY RESINS

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
- Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
- Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
- Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230
- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380

- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

EQUATIONS OF MOTION

- Kinesimetric method and apparatus
[NASA-CASE-MS-C-18929-1] c 39 N83-20280

EQUIPMENT

- Bi-metallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583

EQUIPMENT SPECIFICATIONS

- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- Optical torquemeter Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MS-C-21025-1] c 31 N87-25495
- Electrostatic discharge test apparatus
[NASA-CASE-MS-C-21094-1] c 35 N88-24941
- Vibration analyzer
[NASA-CASE-MS-C-21408-1] c 37 N89-28629

EQUIPOTENTIALS

- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

ERGOMETERS

- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Foot pedal operated fluid type exercising device
[NASA-CASE-MS-C-11561-1] c 05 N73-32014
- Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932

EROSION

- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

ERROR ANALYSIS

- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495

- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
- ERROR CORRECTING CODES**
Error correction method and apparatus for electronic timepieces
[NASA-CASE-LAR-12654-1] c 33 N83-36357
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- ERROR CORRECTING DEVICES**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Error correcting method and apparatus Patent
[NASA-CASE-XNP-02748] c 08 N71-22749
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- ERROR DETECTION CODES**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776
- ERROR SIGNALS**
Automatic fault correction system for parallel signal channels Patent
[NASA-CASE-XNP-03263] c 09 N71-18843
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
- ERRORS**
Analog-to-digital converter
[NASA-CASE-MSC-13110-1] c 08 N72-22163
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- A VLSI single-chip (225,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N88-27220
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- ESCAPE CAPSULES**
Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- ESCAPE SYSTEMS**
Emergency escape system Patent
[NASA-CASE-MSC-12086-1] c 05 N71-12345
- Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992
- ESCHERICHIA**
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- ESTERS**
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- ESTIMATING**
Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
- ETCHING**
Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
- Etching of aluminum for bonding Patent
[NASA-CASE-XMF-02303] c 17 N71-23828
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- ETHANE**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- ETHERS**
Method of producing alternating ether siloxane copolymers Patent
[NASA-CASE-XMF-02584] c 06 N71-20905
- Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254
- Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- ETHYL COMPOUNDS**
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
- The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515
- ETHYLENE OXIDE**
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- EUTECTIC ALLOYS**
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- EVAUATING (VACUUM)**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- EVAPORATION**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- EVAPORATIVE COOLING**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- EVAPORATORS**
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] c 34 N86-27593
- EXAMINATION**
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- EXCHANGING**
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- EXCITATION**
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- EXCLUSION**
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
- EXHAUST EMISSION**
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555
- EXHAUST GASES**
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
- Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
- Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
- High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- EXHAUST NOZZLES**
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
- Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
- Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996
- Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
- Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- EXOTHERMIC REACTIONS**
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- EXPANDABLE STRUCTURES**
Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981

Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579

Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749

Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789

Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

EXPANSION

Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363

Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179

Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

EXPERIMENT DESIGN

Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

EXPERT SYSTEMS

Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410

EXPIRED AIR

Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750

EXPLOSIONS

Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484

EXPLOSIVE DEVICES

Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490

Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969

EXPLOSIVE FORMING

Electrical discharge apparatus for forming Patent
[NASA-CASE-XMF-00375] c 15 N70-34249

EXPLOSIVE WELDING

Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057

Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326

Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364

Tool and process for miniature explosive joining of tubes
[NASA-CASE-LAR-13662-1] c 37 N88-14359

EXPLOSIVES

Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437

Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

EXPONENTIAL FUNCTIONS

Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176

EXPOSURE

Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322

Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

EXPULSION

Electro-expulsive separation system
[NASA-CASE-ARC-11613-1] c 33 N87-28833

EXPULSION BLADDERS

Expulsion bladder-equipped storage tank structure Patent
[NASA-CASE-XNP-00612] c 11 N70-38182

EXTENSIONS

Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701

EXTENSOMETERS

Extensometer frame
[NASA-CASE-XLA-10322] c 15 N72-17452

Conductive elastomeric extensometer
[NASA-CASE-MFS-21049-1] c 52 N74-27864

Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375

EXTERNAL COMBUSTION ENGINES

Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370

EXTERNAL STORE SEPARATION

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

EXTERNAL STORES

Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373

EXTERNAL TANKS

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334

EXTRACTION

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062

Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

EXTRAVEHICULAR ACTIVITY

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Hand-held self-maneuvering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653

Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728

Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

EXTREMELY LOW RADIO FREQUENCIES

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

EXTRUDING

Extrusion can
[NASA-CASE-NPO-10812] c 15 N73-13464

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154

EYE (ANATOMY)

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062

Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716

Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690

Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE DISEASES

Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

EYE EXAMINATIONS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

EYEPIECES

Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857

F

FABRICATION

Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541

Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818

Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056

Capacitor and method of making same Patent
[NASA-CASE-LEW-10364-1] c 09 N71-13522

Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726

Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635

Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933

Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MSC-14331-3] c 27 N78-32262

Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444

Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431

Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474

Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835

Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558

Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519

Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

Method of fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780

Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

- Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N88-23936
- Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
- Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N89-13728
- Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1-CU] c 76 N90-17455
- FABRICS**
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
- Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
- FABRY-PEROT INTERFEROMETERS**
- Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- FACSIMILE COMMUNICATION**
- Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081
- Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- FACTORIAL DESIGN**
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195
- FAIL-SAFE SYSTEMS**
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- FAILURE ANALYSIS**
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586
- FAILURE MODES**
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Method of inserting predesigned disbond areas into composite laminates
[NASA-CASE-LAR-13225-1] c 24 N89-14258
- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N89-28806
- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410
- FAIRINGS**
- Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- FALLING SPHERES**
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- FAR INFRARED RADIATION**
- Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389
- Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- FAR ULTRAVIOLET RADIATION**
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- FARADAY EFFECT**
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- FAST FOURIER TRANSFORMATIONS**
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- FASTENERS**
- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
- Fastener apparatus Patent
[NASA-CASE-ARC-10140-1] c 15 N71-17653
- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- Coaxial cable connector Patent
[NASA-CASE-XNP-04732] c 09 N71-20851
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Threadless fastener apparatus Patent
[NASA-CASE-XFR-05302] c 15 N71-23254
- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Chassis unit insert tightening-extract device
[NASA-CASE-XMS-01077-1] c 37 N79-33467
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335
- Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- FATIGUE (MATERIALS)**
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- FATIGUE LIFE**
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- FATIGUE TESTING MACHINES**
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- FATIGUE TESTS**
- Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N89-28806
- FATS**
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- FAULT TOLERANCE**
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- FECES**
- Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- FEED SYSTEMS**
- Plasma device feed system Patent
[NASA-CASE-XLE-02902] c 25 N71-21694
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
- Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
- Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406
- FEEDBACK**
- Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172
- Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
- FEEDBACK AMPLIFIERS**
- Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
- FEEDBACK CIRCUITS**
- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- FEEDBACK CONTROL**
- Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890

- A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886
- Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
- Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
- The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
- System and method for tracking a signal source --- employing feedback control
[NASA-CASE-HQN-10880-1] c 17 N78-17140
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- Spiral vane bioreactor
[NASA-CASE-MS-C-21361-1] c 51 N89-25557
- Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

FEEDBACK FREQUENCY MODULATION

- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

FEEDERS

- Automatic real-time pair-feeding system for animals
[NASA-CASE-ARC-10302-1] c 51 N74-15778
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

FEET (ANATOMY)

- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

FELTS

- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MS-C-12619-2] c 27 N79-12221

FEMALES

- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MS-C-18381-1] c 52 N81-28740

FERMENTATION

- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

FERRITES

- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032
- Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257

FERROFLUIDS

- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284

FERROMAGNETIC MATERIALS

- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335

FERROMAGNETISM

- High temperature ferromagnetic cobalt-base alloy Patent
[NASA-CASE-XLE-03629] c 17 N71-23248

FIBER COMPOSITES

- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
- Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Fiber reinforced ceramic material
[NASA-CASE-LEW-14392-2] c 27 N89-29538
- Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MS-C-21169-1] c 27 N89-29539

FIBER OPTICS

- Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
- Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
- Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N89-14119
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689

- Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

FIBER RELEASE

- Curing agent for polyepoxides and epoxy resins and composites cured therewith --- preventing carbon fiber release
[NASA-CASE-LEW-13226-1] c 27 N81-17260
- Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954

FIBER STRENGTH

- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

FIBERS

- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MS-C-18934-3] c 24 N82-26387
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259
- Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793

FIELD EFFECT TRANSISTORS

- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
- Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Stored charge transistor
[NASA-CASE-NPO-11156-2] c 33 N75-31331
- Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

FIELD EMISSION

- Method and apparatus for limiting field emission current
[NASA-CASE-ERC-10015-2] c 10 N72-27246
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832

FIELD OF VIEW

- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

FILAMENT WINDING

- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
- Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571

- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- FILAMENTS**
Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- FILLERS**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N89-13728
- FILM COOLING**
Multilist film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
- FILM THICKNESS**
Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MS-C-18936-1] c 35 N83-29652
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
- FILMS**
Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- FILTERS**
Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185
Method for removing oxygen impurities from cesium Patent
[NASA-CASE-XNP-04262-2] c 17 N71-26773
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
- FILTRATION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Infusion extractor
[NASA-CASE-MS-C-20761-1] c 37 N87-15465
- FINS**
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
- FIRE EXTINGUISHERS**
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977
Fire extinguishant materials
[NASA-CASE-ARC-11252-1] c 25 N83-36118
- FIRE PREVENTION**
Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412
Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- FIREPROOFING**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MS-C-14331-1] c 27 N76-24405
Flame retardant spandex type polyurethanes
[NASA-CASE-MS-C-14331-2] c 27 N78-17213
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- FIRES**
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- FIRING (IGNITING)**
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- FITTINGS**
Quick release connector Patent
[NASA-CASE-XLA-01141] c 15 N71-13789
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
Expandable pallet for space station interface attachments
[NASA-CASE-MS-C-21117-1] c 18 N88-28958
- FIXED WINGS**
Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- FIXTURES**
Tool for use in lifting pin supported objects
[NASA-CASE-NPO-13157-1] c 37 N74-32918
Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081
- FLAME PROBES**
Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- FLAME RETARDANTS**
Flame retardant spandex type polyurethanes
[NASA-CASE-MS-C-14331-2] c 27 N78-17213
Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-C-18382-1] c 27 N82-16238
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-C-18382-2] c 27 N84-14324
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- FLAME SPRAYING**
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Modified polyurethane foams for fuel-fir Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- FLAME TEMPERATURE**
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- FLAMES**
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403
- FLAMMABILITY**
Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-C-14903-2] c 27 N80-10358
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- FLANGES**
Cassegrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604
Flanged major modular assembly jig
[NASA-CASE-MS-C-19372-1] c 39 N76-31562
- FLAPS (CONTROL SURFACES)**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
- FLARED BODIES**
Flared tube strainer
[NASA-CASE-XLA-05056] c 15 N72-11389
- FLASH LAMPS**
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
- FLAT CONDUCTORS**
Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Electrical connector
[NASA-CASE-MFS-20757] c 09 N72-28225

- Method and apparatus for preparing multiconductor cable with flat conductors
[NASA-CASE-MFS-10946-1] c 31 N79-21226
Edge coating of flat wires
[NASA-CASE-XMF-05757-1] c 31 N79-21227

FLAT PLATES

- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446
Heat transfer device
[NASA-CASE-MFS-22938-1] c 34 N76-18374
Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928

FLEXIBILITY

- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Nozzle extraction process and handmeter for measuring handle
[NASA-CASE-LAR-12147-1] c 31 N79-11246
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

FLEXIBLE BODIES

- Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Deflective rod switch with elastic support and sealing means Patent
[NASA-CASE-XNP-09808] c 09 N71-12518
Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413

FLEXIBLE WINGS

- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
Control for flexible parawing Patent
[NASA-CASE-XLA-06958] c 02 N71-11038

FLEXING

- Two degree inverted flexure
[NASA-CASE-ARC-10345-1] c 15 N73-12488
Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492

FLIGHT

- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

FLIGHT ALTITUDE

- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420

- Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443

FLIGHT CLOTHING

- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758

FLIGHT CONTROL

- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930
Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT CREWS

- Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285

FLIGHT INSTRUMENTS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

FLIGHT RECORDERS

- Event recorder Patent
[NASA-CASE-XLA-01832] c 14 N71-21006

FLIGHT SAFETY

- Aerial capsule emergency separation device Patent
[NASA-CASE-XLA-00115] c 03 N70-33343
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641

FLIGHT SIMULATION

- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966
Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663

FLIGHT SIMULATORS

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Apparatus for applying simulator g-forces to an arm of an aircraft simulator pilot
[NASA-CASE-LAR-10550-1] c 09 N74-30597
Vehicle simulator binocular multiplanar visual display system
[NASA-CASE-ARC-10808-1] c 09 N76-24280
Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806
Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

- Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

- Sideloading laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304
Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990
Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447

FLIGHT TESTS

- Air frame drag balance Patent
[NASA-CASE-XLA-00113] c 14 N70-33386

FLIGHT TRAINING

- Inflight IFR procedures simulator
[NASA-CASE-KSC-11218-1] c 09 N85-19990

FLIGHT VEHICLES

- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326

FLIP-FLOPS

- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547

FLOAT ZONES

- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545

FLOATING

- Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Floating net retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

FLOATS

- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820

FLOORS

- Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

FLOTATION

- Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748

FLOW CHAMBERS

- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182
Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DIRECTION INDICATORS

- Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

FLOW DISTORTION

- Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845

FLOW DISTRIBUTION

- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Controlled separation combustor --- airflow distribution in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

- Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
- FLOW MEASUREMENT**
- Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- Auto covariance computer
[NASA-CASE-LAR-12968-1] c 60 N86-21154
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
- Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
- Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N88-25355
- FLOW REGULATORS**
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- Moving wall, continuous flow electrophoresis apparatus
[NASA-CASE-MFS-28142-1] c 25 N88-23845
- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252
- FLOW RESISTANCE**
- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
- FLOW STABILITY**
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
- FLOW VELOCITY**
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Densitometer Patent
[NASA-CASE-XLE-00688] c 14 N70-41330
- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
- Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
- FLOW VISUALIZATION**
- Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
- Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551
- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- FLOWMETERS**
- Flow test device
[NASA-CASE-XMS-04917] c 14 N69-24257
- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Zeta potential flowmeter Patent
[NASA-CASE-XNP-06509] c 14 N71-23226
- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015
- Low power electromagnetic flowmeter providing accurate zero set
[NASA-CASE-ARC-10362-1] c 14 N73-32326
- Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
- Automatic flowmeter calibration system
[NASA-CASE-KSC-11076-1] c 34 N81-26402
- Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- State-of-charge coulometer
[NASA-CASE-NPO-15759-1] c 35 N85-21596
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
- Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
- FLUID AMPLIFIERS**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- FLUID DYNAMICS**
- Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
- FLUID FILLED SHELLS**
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- FLUID FILMS**
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
- FLUID FILTERS**
- Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
- High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
- Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
- Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
- FLUID FLOW**
- Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
- Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Full flow with shut off and selective drainage control valve Patent application
[NASA-CASE-ERC-10208] c 15 N70-10867
- Conical valve plug Patent
[NASA-CASE-XLE-00715] c 15 N70-34859
- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Electrohydrodynamic control valve Patent
[NASA-CASE-NPO-10416] c 12 N71-27332
- Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741
- Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
- Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Torsional disconnect unit
[NASA-CASE-NPO-10704] c 15 N72-20445
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442
Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503
Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
Combined dual scatter, local oscillator laser Doppler velocimeter
[NASA-CASE-ARC-10642-1] c 36 N76-14447
Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Pseudo-backscatter laser Doppler velocimeter employing antiparallel-reflector in the forward direction
[NASA-CASE-ARC-10970-1] c 36 N77-25501
Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402
Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Liquid sheet radiator apparatus
[NASA-CASE-LEW-14295-1] c 31 N89-14348
Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423
Fluidic momentum controller
[NASA-CASE-MSC-20906-2] c 35 N89-15379
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202

FLUID INJECTION

Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647
Process of forming particles in a cryogenic path Patent
[NASA-CASE-NPO-10250] c 23 N71-16212
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

FLUID JETS

Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

FLUID LOGIC

Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579

FLUID MANAGEMENT

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

FLUID MECHANICS

Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442

FLUID POWER

Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465

FLUID PRESSURE

Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

FLUID ROTOR GYROSCOPES

Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824

FLUID SWITCHING ELEMENTS

Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155

FLUID TRANSMISSION LINES

Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225

FLUIDIC CIRCUITS

Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

FLUIDICS

Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
Plasma fluidic hybrid display Patent
[NASA-CASE-ERC-10100] c 09 N71-33519
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
Fluid valve assembly
[NASA-CASE-MSC-12731-1] c 37 N78-25426
Fluidic angular velocity sensor
[NASA-CASE-NPO-18479-1CU] c 35 N86-32695

FLUIDIZED BED PROCESSORS

Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Fluidized bed coal combustion reactor
[NASA-CASE-NPO-14273-1] c 25 N82-11144
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

FLUIDS

Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

FLUORESCENCE

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676
Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900

Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

FLUORIDES

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Corrosion resistant beryllium Patent
[NASA-CASE-LEW-10327] c 17 N71-33408
Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856
Graphite-fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259

FLUORINATION

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

FLUORINE

Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

FLUORINE COMPOUNDS

Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491

FLUORO COMPOUNDS

New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076
Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312

FLUOROCARBONS

Electrically conductive fluorocarbon polymer
[NASA-CASE-XLE-06774-2] c 06 N72-25150
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

FLUOROHYDROCARBONS

New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUOROPOLYMERS

Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

FLUTTER

Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811
Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

FLUTTER ANALYSIS

Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448

FLUX (RATE)

Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575

FLUX DENSITY

Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
Copper chloride cathode for a secondary battery
[NASA-CASE-NPO-17640-1-CU] c 33 N90-17011

FLUXES

Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078

FLYWHEELS

Energy storage apparatus
[NASA-CASE-GSC-12030-1] c 44 N78-24608
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

FOAMS

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

FOCAL PLANE DEVICES

Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-GSC-10220-1] c 07 N71-27233
High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026

Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

FOCI

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

FOCUSING

X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Focussing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
Multiplate focusing collimator --- for scanning small near radiation sources
[NASA-CASE-MFS-20932-1] c 35 N75-19616
RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Gyrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350

FOG

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834
Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

FOILS (MATERIALS)

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

FOLDING

Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180

FOLDING STRUCTURES

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
Foldable construction block
[NASA-CASE-MSC-12233-1] c 15 N72-25454
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492

FOOD

Bacteria detection instrument and method
[NASA-CASE-GSC-11533-1] c 14 N73-13435

FOOTPRINTS

Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918

FORCE

Ferrofluidic solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185

FORCE DISTRIBUTION

Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
Impact monitoring apparatus
[NASA-CASE-MSC-15626-1] c 14 N72-25411
Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Linear force device
[NASA-CASE-MSC-20549-2] c 35 N88-24927

FORCED VIBRATION

Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679

FOREBODIES

Aerodynamic side-force alleviator means
[NASA-CASE-LAR-12326-1] c 02 N81-14968
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628

FORMALDEHYDE

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

FORMAT

Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

FORMATES

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

FORMING TECHNIQUES

Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446
Apparatus for forming dish ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

FOSSIL FUELS

- Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

FOUNDATIONS

- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

FOURIER TRANSFORMATION

- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

FRACTIONATION

- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Electrophoretic fractional elution apparatus employing a rotational seal fraction collector
[NASA-CASE-MFS-23284-1] c 37 N80-14397
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

FRACTURE MECHANICS

- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993

FRACTURE STRENGTH

- Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271
High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N90-15227
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

FRAMES

- Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471

FRAMING CAMERAS

- High speed photo-optical time recording
[NASA-CASE-KSC-10294] c 14 N72-18411

FREE FLIGHT TEST APPARATUS

- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926

FREE WING AIRCRAFT

- Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061

FREEZE DRYING

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MSC-13540-1] c 05 N72-33096

FREEZING

- System for and method of freezing biological tissue
[NASA-CASE-GSC-12173-1] c 51 N79-10694

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

FREON

- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581

FREQUENCIES

- Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
High efficiency multifrequency feed
[NASA-CASE-GSC-11909] c 32 N74-20863

FREQUENCY ANALYZERS

- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
Broadband frequency discriminator Patent
[NASA-CASE-NPO-10096] c 07 N71-24583
Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

FREQUENCY CONTROL

- Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
Low loss dichroic plate
[NASA-CASE-NPO-13171-1] c 32 N74-11000
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Cam-operated pitch-change apparatus
[NASA-CASE-LEW-13050-1] c 07 N79-14095
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668

FREQUENCY CONVERTERS

- Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Static inverters which sum a plurality of waves Patent
[NASA-CASE-XMF-00663] c 08 N71-18752
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874

FREQUENCY DISCRIMINATORS

- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

FREQUENCY DISTRIBUTION

- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

FREQUENCY DIVIDERS

- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229

- Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330

ELECTRONIC ANALOG DIVIDER

- [NASA-CASE-LEW-11881-1] c 33 N77-17354

FREQUENCY DIVISION MULTIPLEXING

- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

FREQUENCY MEASUREMENT

- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
Frequency measurement by coincidence detection with standard frequency
[NASA-CASE-MSC-14649-1] c 33 N76-16331
Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

FREQUENCY MODULATION

- Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
Symmetrical odd-modulus frequency divider
[NASA-CASE-NPO-13426-1] c 33 N75-31330
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
FM/CW radar system
[NASA-CASE-MFS-22234-1] c 32 N79-10264
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191

FREQUENCY MULTIPLIERS

- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
Open loop digital frequency multiplier
[NASA-CASE-MSC-12709-1] c 33 N77-24375

FREQUENCY RANGES

- Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
Technique for extending the frequency range of digital dividers
[NASA-CASE-LAR-10730-1] c 33 N74-10223
Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
Multiple rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195

FREQUENCY SCANNING

- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

FREQUENCY SHIFT

- Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

- Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
- Laser fluid velocity detector Patent
[NASA-CASE-XAC-10770-1] c 16 N71-24828
- Laser Doppler velocity simulator --- to induce frequency shift
[NASA-CASE-LAR-12176-1] c 36 N80-16321
- FREQUENCY SHIFT KEYING**
- Frequency shift keyed demodulator Patent
[NASA-CASE-XGS-02889] c 07 N71-11282
- Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- FREQUENCY STABILITY**
- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
- Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- FREQUENCY STANDARDS**
- Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
- Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
- FREQUENCY SYNCHRONIZATION**
- Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
- Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- FREQUENCY SYNTHESIZERS**
- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296
- Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
- Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- FRICTION**
- Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
- FRICTION DRAG**
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- FRICTION FACTOR**
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- FRICTION MEASUREMENT**
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Static coefficient test method and apparatus
[NASA-CASE-GSC-11893-1] c 35 N76-31489
- Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
- FRICTION REDUCTION**
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- FRICTIONLESS ENVIRONMENTS**
- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
- FROST**
- Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
- Device for determining frost depth and density
[NASA-CASE-MFS-25754-1] c 35 N84-28018
- FROZEN FOODS**
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- FUEL CAPSULES**
- Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
- FUEL CELL POWER PLANTS**
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MS-C-20127-2] c 37 N85-34403
- FUEL CELLS**
- Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
- Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
- Reconstituted asbestos matrix --- for use in fuel or electrolysis cells
[NASA-CASE-MS-C-12568-1] c 24 N76-14204
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MS-C-20127-2] c 37 N85-34403
- FUEL COMBUSTION**
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- FUEL CONSUMPTION**
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- FUEL CONTROL**
- Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
- Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
- Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- FUEL FLOW**
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- FUEL FLOW REGULATORS**
- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- FUEL GAGES**
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- FUEL INJECTION**
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199
- Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
- Injection head for delivering liquid fuel and oxidizers
[NASA-CASE-NPO-10046] c 28 N72-17843
- Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
- Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130
- FUEL OILS**
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
- FUEL PUMPS**
- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MS-C-12139-1] c 28 N71-14058
- FUEL SYSTEMS**
- Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Fuel combustor
[NASA-CASE-LEW-12137-1] c 25 N78-10224
- Fuel delivery system including heat exchanger means
[NASA-CASE-LEW-12793-1] c 37 N79-11403
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- FUEL TANK PRESSURIZATION**
- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
- Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
- FUEL TANKS**
- Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
- Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
- High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523
- Tanker orbit transfer vehicle and method
[NASA-CASE-MS-C-20543-1] c 18 N84-22610
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741
- Tank gauging apparatus and method
[NASA-CASE-MS-C-21059-1] c 35 N89-12843
- FUEL VALVES**
- Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
- Semitoroidal diaphragm cavitating valve Patent
[NASA-CASE-XNP-09704] c 12 N71-18615
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- FUEL-AIR RATIO**
- Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

FUELS

- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

FUNCTION GENERATORS

- Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
Digital quasi-exponential function generator
[NASA-CASE-NPO-11130] c 08 N72-20176
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253
Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

FURLABLE ANTENNAS

- Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979
Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169
Furlable antenna --- antenna design
[NASA-CASE-NPO-13553-1] c 33 N76-32457

FURNACES

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
Apparatus and method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549

FUSELAGES

- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-12333-1] c 05 N84-33400
Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

FUSION (MELTING)

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083

FUSION WELDING

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128

G

GADOLINIUM

- Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

GALILEO PROJECT

- Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

GALLIUM

- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790

GALLIUM ARSENIDES

- GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
[NASA-CASE-LAR-11144-1] c 25 N75-26043
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868

GALLIUM PHOSPHIDES

- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GALVANIC SKIN RESPONSE

- Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

GAMMA RAY SPECTROMETERS

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

GAMMA RAYS

- Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392
Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

GANTRY CRANES

- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021

GAPS

- Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709

GARMENTS

- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

GAS ANALYSIS

- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

- Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas

- [NASA-CASE-ARC-10308-1] c 06 N72-31141
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Nulling device for detection of trace gases by NDIR absorption
[NASA-CASE-ARC-10760-1] c 25 N76-22323
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159
Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002

GAS BAGS

- Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

GAS BEARINGS

- Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Fluid power transmission Patent
[NASA-CASE-XMS-01445] c 12 N71-16031
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
Fluid power transmitting gas bearing Patent
[NASA-CASE-ERC-10097] c 15 N71-28465
Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
Air bearing assembly for curved surfaces
[NASA-CASE-MFS-20423] c 15 N72-11388
Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588
Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606

GAS CHROMATOGRAPHY

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334
Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

GAS COMPOSITION

- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213

GAS COOLED REACTORS

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GAS COOLING

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190

Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

GAS DENSITY

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681

Method for measuring the characteristics of a gas Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Method of producing crystalline materials
[NASA-CASE-NPO-10440] c 15 N72-21466

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438

Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

GAS DETECTORS

Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733

Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442

Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896

Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408

Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958

Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742

Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509

Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393

Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

GAS DISCHARGE TUBES

Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
[NASA-CASE-XLA-03103] c 25 N71-21693

GAS DISCHARGES

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

GAS EVOLUTION

Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

GAS EXPANSION

Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051

Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025

Gas operated actuator
[NASA-CASE-NPO-11340] c 15 N72-33477

GAS FLOW

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600

Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815

Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245

Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769

Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457

Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227

Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730

Condensate removal device for heat exchanger
[NASA-CASE-MSC-14143-1] c 77 N75-20139

Flow measuring apparatus
[NASA-CASE-LEW-12078-1] c 35 N75-30503

Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428

Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384

Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177

Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

GAS GENERATORS

Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933

Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450

Electrolytic gas operated actuator
[NASA-CASE-NPO-11369] c 15 N73-13467

Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446

Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704

Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

GAS GUNS

Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628

GAS HEATING

Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126

GAS INJECTION

Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819

Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127

Gas chromatograph injection system
[NASA-CASE-ARC-10344-2] c 35 N75-26334

In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

GAS IONIZATION

Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331

A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

Modulated hydrogen ion flame detector
[NASA-CASE-ARC-10322-1] c 35 N76-18403

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186

Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

GAS JETS

Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652

GAS LASERS

Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614

Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441

Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428

Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943

Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

GAS LUBRICANTS

Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39997

Thrust bearing
[NASA-CASE-LEW-11949-1] c 37 N76-29588

Cantilever mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418

Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490

GAS MASERS

Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578

Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489

Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029

Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436

GAS MIXTURES

Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774

Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741

Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742

Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146

Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700

Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636

Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253

GAS PIPES

Fluid flow restrictor Patent
[NASA-CASE-NPO-10117] c 15 N71-15608

Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GAS PRESSURE

Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233

Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681

Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
Measurement of gas production of microorganisms ---
using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
Pressure limiting propellant actuating system
[NASA-CASE-MS-C-18179-1] c 20 N80-18097
Method and apparatus for producing gas-filled hollow
spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896

GAS STREAMS

Method for measuring the characteristics of a gas
Patent
[NASA-CASE-XLA-03375] c 16 N71-24074
Stagnation pressure probe --- for measuring pressure
of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Simultaneous treatment of SO₂ containing stack gases
and waste water
[NASA-CASE-MS-C-16258-1] c 45 N79-12584
Gas levitator having fixed levitation node for
containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828

GAS TEMPERATURE

Method for measuring the characteristics of a gas
Patent
[NASA-CASE-XLA-03375] c 16 N71-24074

GAS TRANSPORT

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

GAS TUBES

Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

GAS TUNGSTEN ARC WELDING

Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N89-23739

GAS TURBINE ENGINES

Gas turbine engine fuel control
[NASA-CASE-LEW-11187-1] c 28 N73-19793
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Controlled separation combustor --- airflow distribution
in gas turbine engines
[NASA-CASE-LEW-11593-1] c 20 N76-14190
Fused silicide coatings containing discrete particles for
protecting niobium alloys --- used in space shuttle thermal
protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12830-1] c 07 N77-23106
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Nickel base alloy --- for gas turbine engine stator
vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501
Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
Automotive gas turbine fuel control
[NASA-CASE-LEW-12785-1] c 37 N78-24545
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Independent power generator
[NASA-CASE-LAR-11208-1] c 44 N78-32539
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Apparatus for sensor failure detection and correction
in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Control means for a gas turbine engine
[NASA-CASE-LEW-14586-1] c 07 N83-31603

Silicon-slurry/aluminide coating --- protecting gas turbine
engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Apparatus for improving the fuel efficiency of a gas
turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Method for improving the fuel efficiency of a gas turbine
engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Thermal stress minimized, two component, turbine
shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

GAS TURBINES

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Counter pumping debris excluder and separator --- gas
turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
Apparatus and method for reducing thermal stress in
a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method and turbine for extracting kinetic energy from
a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Corrosion resistant thermal barrier coating --- protecting
gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188

GAS VALVES

High-temperature, high-pressure spherical segment
valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Slow opening valve --- valve design for shuttle portable
oxygen system
[NASA-CASE-MS-C-20112-1] c 37 N85-20338

GAS WELDING

Spectral method for monitoring atmospheric
contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871
Grain refinement control in TIG arc welding
[NASA-CASE-MS-C-19095-1] c 37 N75-19683

GAS-LIQUID INTERACTIONS

Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282

GAS-METAL INTERACTIONS

Improved refractory coatings --- sputtered coatings on
substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Refractory coatings and method of producing the
same
[NASA-CASE-LEW-13169-1] c 26 N82-29415

GASDYNAMIC LASERS

Diatom infrared gasdynamic laser --- for producing
different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426

GASEOUS DIFFUSION

Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Gas diffusion liquid storage bag and method of use for
storing blood
[NASA-CASE-NPO-13930-1] c 52 N79-14749

GASEOUS FISSION REACTORS

Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759

GASEOUS ROCKET PROPELLANTS

Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983

GASES

Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372

Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
Tank gauging apparatus and method
[NASA-CASE-MS-C-21059-1] c 35 N89-12843

GASIFICATION

Mixed polyvalent-monovalent metal coating for
carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950

GASKETS

Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
Reinforced polyquinoxaline gasket and method of
preparing the same --- resistant to ionizing radiation and
liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Process for preparing perfluorotriazine elastomers and
precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546

GATES (CIRCUITS)

Flux sensing device using a tubular core with toroidal
gating coil and solenoidal output coil wound thereon
Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Increasing efficiency of switching type regulator circuits
Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Memory device for two-dimensional radiant energy array
computers
[NASA-CASE-GSC-11839-2] c 60 N78-10709
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Controller for computer control of brushless dc motors
--- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352
Combinational logic for generating gate drive signals for
phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
Pulsed phase locked loop strain monitor --- voltage
controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

GATES (OPENINGS)

Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935

GAW-1 AIRFOIL

Airfoil shape for flight at subsonic speeds --- design
analysis and aerodynamic characteristics of the GAW-1
airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154

GEAR TEETH

Wobble gear drive mechanism --- for aerospace
environments
[NASA-CASE-WOO-00625] c 37 N78-17385
Belt for transmitting power from a cogged driving
member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717

GEARS

Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
Bidirectional step torque filter with zero backlash
characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
Self-lubricating gears and other mechanical parts
Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
Sequencing device utilizing planetary gear set
[NASA-CASE-MS-C-19514-1] c 37 N79-20377
Power control for hot gas engines
[NASA-CASE-NPO-14220-1] c 37 N81-14318
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Linear force device
[NASA-CASE-MS-C-20549-2] c 35 N88-24927

RELATION

Method of controlling a resin curing process --- for fiber
reinforced composites
[NASA-CASE-MS-C-21169-1] c 27 N89-29539

GELLED ROCKET PROPELLANTS

- Process of forming particles in a cryogenic path
Patent
[NASA-CASE-NPO-10250] c 23 N71-16212

GELS

- Intermittent type silica gel adsorption refrigerator
Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

GENERAL AVIATION AIRCRAFT

- Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

GENERATORS

- Apparatus for establishing flow of a fluid mass having a known velocity
[NASA-CASE-MFS-21424-1] c 34 N74-27730
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

GEODESY

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

GEODETIC SURVEYS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEODIMETERS

- Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344

GEOLOGICAL SURVEYS

- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

GEOMETRY

- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

GERMANIUM

- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320

GERMANIUM ALLOYS

- Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

GIMBALS

- Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

GLANDS (SEALS)

- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447

GLASS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063

- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589

GLASS COATINGS

- Method of attaching a cover glass to a silicon solar cell
Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
Process for glass coating an ion accelerator grid
Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

GLASS ELECTRODES

- Liquid junction and method of fabricating the same
Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

GLASS FIBER REINFORCED PLASTICS

- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

GLASS FIBERS

- Non-magnetic battery case Patent
[NASA-CASE-XGS-00886] c 03 N71-11053
Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

GLASSWARE

- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751

GLAUCOMA

- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684

GLIDE PATHS

- Integrated lift/drag controller for aircraft
[NASA-CASE-ARC-10456-1] c 05 N75-12930

GLOBAL POSITIONING SYSTEM

- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

GLOBES

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

GLOVES

- Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

GLOW DISCHARGES

- Deposition of alloy films --- on irregular shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401

GLUCOSE

- Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

GLYCOLS

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

GOLD COATINGS

- Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

GONDOLAS

- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008

GRANULAR MATERIALS

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

GRAPHITE

- Bonding graphite with fused silver chloride
[NASA-CASE-XGS-00963] c 15 N69-39735
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
Mixed polyvalent-monovalent metal coating for carbon-graphite fibers
[NASA-CASE-NPO-14987-1] c 24 N83-33950
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Light weight fire resistant graphite composites
[US-PATENT-4,598,007] c 24 N86-28131
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623

GRAPHITE-EPOXY COMPOSITES

- Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000
Method and device for detection of a substance --- determining carbon fiber release in fire situations
[NASA-CASE-NPO-14940-1] c 33 N83-31954
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
Method for machining holes in composite materials
[NASA-CASE-MFS-28044-1] c 31 N87-25491

GRAPHITIZATION

- Brominated graphite fibers and method of producing the same
[NASA-CASE-LEW-14698-1] c 24 N88-29888
Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259

Brominated graphitized carbon fibers
[NASA-CASE-LEW-14698-2] c 27 N90-15262

GRATINGS (SPECTRA)
Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

GRAVIMETERS
Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587

GRAVITATION
Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789

GRAVITATIONAL CONSTANT
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196

GRAVITATIONAL EFFECTS
Locomotion and restraint aid Patent
[NASA-CASE-ARC-10153] c 05 N71-28619
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MS-C-20202-1] c 54 N84-16803
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

GRAVITATIONAL FIELDS
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

GRAVITY GRADIENT SATELLITES
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969

GRAVITY GRADIOMETERS
Gravity device Patent
[NASA-CASE-XMF-00424] c 11 N70-38196
Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

GRAZING INCIDENCE
Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GRAZING INCIDENCE TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

GREENHOUSES
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MS-C-21629-1] c 54 N89-29027

GRIDS
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666

GRINDING (MATERIAL REMOVAL)
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

GRINDING MACHINES
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905

GROOVES
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125

Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MS-C-20497-1] c 34 N85-29180

GROUND EFFECT (COMMUNICATIONS)
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390

GROUND EFFECT MACHINES
Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039
Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
Open tube guideway for high speed air cushioned vehicles
[NASA-CASE-LAR-10256-1] c 85 N74-34672

GROUND HANDLING
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383

GROUND STATIONS
Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Ultra stable frequency distribution system
[NASA-CASE-NPO-13836-1] c 32 N78-15323

GROUND SUPPORT EQUIPMENT
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
Apparatus for measuring an aircraft's speed and height
[NASA-CASE-LAR-12275-1] c 35 N79-18296

GROUND-AIR-GROUND COMMUNICATION
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

GROUT
Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

GUARDS (SHIELDS)
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

GUIDANCE (MOTION)
Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Cable stabilizer for open shaft cable operated elevators
[NASA-CASE-KSC-10513] c 15 N72-25453
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

GUIDANCE SENSORS
Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

GUN LAUNCHERS
Self-obturing, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247

GUN PROPELLANTS
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

GUNN EFFECT
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235

GUNS
Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

GYNECOLOGY
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

GYRATORS
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428

GYROSCOPES
Externally pressurized fluid bearing Patent
[NASA-CASE-XMF-00515] c 15 N70-34664
Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896
Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132
Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

GYROSCOPIC PENDULUMS
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047

GYROSTABILIZERS
Passive dual spin misalignment compensators --- gyro stabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Aircraft body-axis rotation measurement system
[NASA-CASE-FRC-11043-1] c 06 N83-33882

H

HAFFNIUM
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584

HALIDES
Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering
[NASA-CASE-LEW-10450-1] c 15 N72-25448
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

HALL EFFECT
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Redundant speed control for brushless Hall effect motor
[NASA-CASE-MFS-20207-1] c 09 N73-32107
Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569

HALL GENERATORS
Hall current measuring apparatus having a series resistor for temperature compensation Patent
[NASA-CASE-XAC-01662] c 14 N71-23037

HALOGENS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

HAMMERS
Apparatus for making diamonds
[NASA-CASE-MFS-20698] c 15 N72-20446

HAND (ANATOMY)
Mechanically actuated triggered hand
[NASA-CASE-MFS-20413] c 15 N72-21463
Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652

- HANDLES**
 Releasable clamping apparatus
 [NASA-CASE-MFS-28192-1] c 37 N90-17154
- HANDLING EQUIPMENT**
 Supporting and protecting device Patent
 [NASA-CASE-XMF-00580] c 11 N70-35383
 Device for handling printed circuit cards Patent
 [NASA-CASE-MFS-20453] c 15 N71-29133
- HARDENING (MATERIALS)**
 Method of heat treating age-hardenable alloys
 [NASA-CASE-XNP-01311] c 26 N75-29236
- HARDNESS**
 Deposition of diamondlike carbon films
 [NASA-CASE-LEW-14080-1] c 31 N85-20153
- HARMONIC GENERATORS**
 Wide band doubler and sine wave quadrature generator
 [NASA-CASE-NPO-11133] c 10 N72-20223
- HARNESSES**
 Pressure suit tie-down mechanism Patent
 [NASA-CASE-XMF-00784] c 05 N71-12335
 One hand backpack harness
 [NASA-CASE-LAR-10102-1] c 05 N72-23085
 Shoulder harness and lap belt restraint system
 [NASA-CASE-ARC-10519-2] c 05 N75-25915
- HATCHES**
 Emergency escape system Patent
 [NASA-CASE-MSC-12086-1] c 05 N71-12345
 Hatch cover
 [NASA-CASE-MSC-21356-1] c 18 N90-19278
- HAZARDS**
 Polycarbonate article with chemical resistant coating
 [NASA-CASE-MSC-21503-1] c 27 N90-16925
- HEAD-UP DISPLAYS**
 Heads up display
 [NASA-CASE-LAR-12630-1] c 06 N84-27733
- HEART FUNCTION**
 Ratemeter
 [NASA-CASE-MFS-20418] c 14 N73-24473
 Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
 [NASA-CASE-ARC-10597-1] c 52 N74-20726
- HEART RATE**
 Digital cardiometer system Patent
 [NASA-CASE-XMS-02399] c 05 N71-22896
 Ratemeter
 [NASA-CASE-MFS-20418] c 14 N73-24473
 Digital computing cardiometer
 [NASA-CASE-MFS-20284-1] c 52 N74-12778
 Pulse transducer with artifact signal attenuator --- heart rate sensors
 [NASA-CASE-FRC-11012-1] c 52 N80-23969
- HEAT**
 Thermionic converter with current augmented by self induced magnetic field Patent
 [NASA-CASE-XLE-01903] c 22 N71-23599
- HEAT EXCHANGERS**
 Electro-thermal rocket Patent
 [NASA-CASE-XLE-00267] c 28 N70-33356
 Space suit heat exchanger Patent
 [NASA-CASE-XMS-09571] c 05 N71-19439
 Dual solid cryogenics for spacecraft refrigeration Patent
 [NASA-CASE-GSC-10188-1] c 23 N71-24725
 Shell side liquid metal boiler
 [NASA-CASE-NPO-10831] c 33 N72-20915
 Helium refrigerator and method for decontaminating the refrigerator
 [NASA-CASE-NPO-10634] c 23 N72-25619
 Condensate removal device for heat exchanger
 [NASA-CASE-MSC-14143-1] c 77 N75-20139
 Heat exchanger system and method
 [NASA-CASE-LAR-10799-2] c 34 N76-17317
 Heat transfer device
 [NASA-CASE-MFS-22938-1] c 34 N76-18374
 Heat exchanger
 [NASA-CASE-MFS-22991-1] c 34 N77-10463
 Flat-plate heat pipe
 [NASA-CASE-GSC-11998-1] c 34 N77-32413
 Combustor --- low nitrogen oxide formation
 [NASA-CASE-NPO-13958-1] c 25 N79-11151
 Fuel delivery system including heat exchanger means
 [NASA-CASE-LEW-12793-1] c 37 N79-11403
 Heat exchanger --- rocket combustion chambers and cooling systems
 [NASA-CASE-LEW-12252-1] c 34 N79-13288
 Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
 [NASA-CASE-LEW-12441-1] c 34 N79-13289
 Thermal energy transformer
 [NASA-CASE-NPO-14058-1] c 44 N79-18443
 Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
 [NASA-CASE-MSC-16182-1] c 54 N80-10799
- Heat exchanger and method of making --- rocket lining
 [NASA-CASE-LEW-12441-2] c 34 N80-24573
 Heat exchanger and method of making
 [NASA-CASE-LEW-12441-3] c 44 N81-24519
 Cycling Joule Thomson refrigerator
 [NASA-CASE-NPO-15251-1] c 31 N83-31897
 Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
 [NASA-CASE-NPO-16257-1] c 31 N85-29082
 Heat exchanger for electrothermal devices
 [NASA-CASE-LEW-14037-1] c 20 N87-16875
 Monogroove cold plate
 [NASA-CASE-MSC-20946-1] c 34 N87-28867
 High effectiveness contour matching contact heat exchanger
 [NASA-CASE-MSC-20840-1] c 34 N88-29132
 Capillary heat transport and fluid management device
 [NASA-CASE-MFS-28217-1] c 34 N89-14392
- HEAT FLUX**
 Heat flux sensor assembly
 [NASA-CASE-XMS-05909-1] c 14 N69-27459
 Heat flux measuring system Patent
 [NASA-CASE-XFR-03802] c 33 N71-23085
 Radial heat flux transformer
 [NASA-CASE-NPO-10828] c 33 N72-17948
- HEAT MEASUREMENT**
 Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
 [NASA-CASE-XAC-10768] c 09 N71-18830
 Specific wavelength colorimeter --- for measuring given solute concentration in test sample
 [NASA-CASE-MSC-14081-1] c 35 N74-27860
 Method and device for determining heats of combustion of gaseous hydrocarbons
 [NASA-CASE-LAR-13528-1] c 25 N88-29002
- HEAT OF COMBUSTION**
 Method and device for determining heats of combustion of gaseous hydrocarbons
 [NASA-CASE-LAR-13528-1] c 25 N88-29002
- HEAT OF VAPORIZATION**
 Pumped two-phase heat transfer loop
 [NASA-CASE-MSC-20841-1] c 34 N87-22950
- HEAT PIPES**
 Heat pipe thermionic diode power system Patent
 [NASA-CASE-XMF-05843] c 03 N71-11055
 Microwave power receiving antenna Patent
 [NASA-CASE-MFS-20333] c 09 N71-13486
 Isothermal cover with thermal reservoirs Patent
 [NASA-CASE-MFS-20355] c 33 N71-25353
 Structural heat pipe --- for spacecraft wall thermal insulation system
 [NASA-CASE-GSC-11619-1] c 34 N75-12222
 Method of forming a wick for a heat pipe
 [NASA-CASE-NPO-13391-1] c 34 N76-27515
 Production of I-123
 [NASA-CASE-LEW-11390-3] c 25 N76-29379
 Heat pipe with dual working fluids
 [NASA-CASE-ARC-10198] c 34 N78-17336
 Multi-chamber controllable heat pipe
 [NASA-CASE-ARC-10199] c 34 N78-17337
 Thermal control canister
 [NASA-CASE-GSC-12253-1] c 34 N79-31523
 High thermal power density heat transfer --- thermionic converters
 [NASA-CASE-LEW-12950-1] c 34 N82-11399
 Heat pipes containing alkali metal working fluid
 [NASA-CASE-LEW-12253-1] c 74 N83-19596
 Heat pipe thermal switch
 [NASA-CASE-GSC-12812-1] c 34 N83-35307
 Thermal control system --- removing waste heat from industrial process spacecraft
 [NASA-CASE-GSC-12771-1] c 34 N84-14461
 Heat pipe cooled probe
 [NASA-CASE-LAR-12588-1] c 34 N85-21568
 High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
 [NASA-CASE-LEW-12950-2] c 34 N85-29179
 Multi-leg heat pipe evaporator
 [NASA-CASE-MSC-20812-1] c 34 N86-27593
 Monogroove cold plate
 [NASA-CASE-MSC-20946-1] c 34 N87-28867
 Space vehicle thermal rejection system
 [NASA-CASE-LAR-13738-1] c 18 N87-29586
 Polymeric heat pipe wick
 [NASA-CASE-GSC-13019-1] c 34 N88-29133
 Ceramic heat pipe wick
 [NASA-CASE-GSC-13199-1] c 27 N90-15261
- HEAT PUMPS**
 Thermal pump-compressor for space use Patent
 [NASA-CASE-XLA-00377] c 33 N71-17610
 Manually actuated heat pump
 [NASA-CASE-NPO-10677] c 05 N72-11084
 Pump for delivering heated fluids
 [NASA-CASE-NPO-11417] c 15 N73-24513
- Magnetic heat pumping
 [NASA-CASE-LEW-12508-1] c 34 N78-17335
 Cooling system for high speed aircraft
 [NASA-CASE-LAR-12406-1] c 05 N81-26114
 Magnetic heat pumping
 [NASA-CASE-LEW-12508-3] c 34 N83-29625
 Ceramic heat pipe wick
 [NASA-CASE-GSC-13199-1] c 27 N90-15261
- HEAT RADIATORS**
 Capillary radiator Patent
 [NASA-CASE-XLE-03307] c 33 N71-14035
 Radiator deployment actuator Patent
 [NASA-CASE-MSC-11817-1] c 15 N71-26611
 Space simulation and radiative property testing system and method Patent
 [NASA-CASE-MFS-20096] c 14 N71-30026
 Space vehicle thermal rejection system
 [NASA-CASE-LAR-13738-1] c 18 N87-29586
 Arc-textured high emittance radiator surfaces
 [NASA-CASE-LEW-14679-1] c 27 N89-28651
- HEAT RESISTANT ALLOYS**
 High temperature nickel-base alloy Patent
 [NASA-CASE-XLE-00151] c 17 N70-33283
 Nickel-base alloy Patent
 [NASA-CASE-XLE-00283] c 17 N70-36616
 High temperature cobalt-base alloy Patent
 [NASA-CASE-XLE-02991] c 17 N71-16025
 Brazing alloy Patent
 [NASA-CASE-XNP-03063] c 17 N71-23365
 Method of forming superalloys
 [NASA-CASE-LEW-10805-1] c 15 N73-13465
 Method of making pressure tight seal for super alloy
 [NASA-CASE-LAR-10170-1] c 37 N74-11301
 Method of forming articles of manufacture from superalloy powders
 [NASA-CASE-LEW-10805-2] c 37 N74-13179
 Refractory porcelain enamel passive control coating for high temperature alloys
 [NASA-CASE-MFS-22324-1] c 27 N75-27160
 Cermet composition and method of fabrication --- heat resistant alloys and powders
 [NASA-CASE-NPO-13120-1] c 27 N76-15311
 Metallic hot wire anemometer --- for high speed wind tunnel tests
 [NASA-CASE-ARC-10911-1] c 35 N77-20400
 Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
 [NASA-CASE-MFS-22926-1] c 24 N77-27187
 Directionally solidified eutectic gamma plus beta nickel-base superalloys
 [NASA-CASE-LEW-12906-1] c 26 N77-32279
 Nickel base alloy --- for gas turbine engine stator vanes
 [NASA-CASE-LEW-12270-1] c 26 N77-32280
 Directionally solidified eutectic gamma-gamma nickel-base superalloys
 [NASA-CASE-LEW-12905-1] c 26 N78-18183
 Coating with overlay metallic-cermet alloy systems
 [NASA-CASE-LEW-13639-2] c 26 N84-27855
 Heat treatment for superalloy
 [NASA-CASE-LEW-14262-1] c 26 N87-28647
 Elevated temperature aluminum alloys
 [NASA-CASE-LAR-13632-1] c 26 N87-29650
 Directional solidification of superalloys
 [NASA-CASE-MFS-28314-1] c 26 N90-15227
- HEAT SHIELDING**
 Heat flux sensor assembly
 [NASA-CASE-XMS-05909-1] c 14 N69-27459
 Heat shield oven
 [NASA-CASE-XMS-04318] c 15 N69-27871
 Heat shield Patent
 [NASA-CASE-XMS-00486] c 33 N70-33344
 Sandwich panel construction Patent
 [NASA-CASE-XLA-00349] c 33 N70-37979
 Hypersonic reentry vehicle Patent
 [NASA-CASE-XMS-04142] c 31 N70-41631
 Transpirationally cooled heat ablation system Patent
 [NASA-CASE-XMS-02677] c 31 N70-42075
 Azine polymers and process for preparing the same Patent
 [NASA-CASE-XMF-08656] c 06 N71-11242
 Synthesis of polymeric Schiff bases by reaction of acetals and amine compounds Patent
 [NASA-CASE-XMF-08652] c 06 N71-11243
 Lightweight refractory insulation and method of preparing the same Patent
 [NASA-CASE-MFS-05279] c 18 N71-16124
 Thermal radiation shielding Patent
 [NASA-CASE-XLE-03432] c 33 N71-24145
 Spacecraft Patent
 [NASA-CASE-MSC-13047-1] c 31 N71-25434
 Fabric for micrometeoroid protection garment Patent
 [NASA-CASE-MSC-12109] c 18 N71-26285

- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
- Mechanical fastener
[NASA-CASE-LAR-12738-2] c 37 N85-30335

HEAT SINKS

- Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
- Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
- Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

HEAT SOURCES

- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Portable electrophoresis apparatus using minimum electrolyte
[NASA-CASE-NPO-13274-1] c 25 N79-10163
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- High temperature electric arc furnace
[NASA-CASE-MFS-28281-1] c 09 N88-28938

HEAT STORAGE

- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

HEAT TRANSFER

- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
- Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Heat conductive resiliently compressible structure for space electronics package modules Patent
[NASA-CASE-MSC-12389] c 33 N71-29052
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410

Thermal control system for a spacecraft modular housing

- [NASA-CASE-GSC-11018-1] c 31 N73-30829
- Thermal flux transfer system
[NASA-CASE-NPO-12070-1] c 28 N73-32606
- Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
- Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Heat exchanger
[NASA-CASE-MFS-22991-1] c 34 N77-10463
- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287
- Heat exchanger and method of making
[NASA-CASE-LEW-12441-3] c 44 N81-24519
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
- Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] c 37 N84-22958
- High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

HEAT TRANSMISSION

- Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692

HEAT TREATMENT

- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Inorganic thermal control pigment Patent
[NASA-CASE-XNP-02139] c 18 N71-24184
- Thermal compression bonding of interconnectors
[NASA-CASE-GSC-10303] c 15 N72-22487
- Method of heat treating a formed powder product material
[NASA-CASE-LEW-10805-3] c 26 N74-10521
- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
- Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- Method of preparing fiber reinforced ceramic material
[NASA-CASE-LEW-14392-1] c 27 N87-28656
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

HEATERS

- Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935

HEATING

- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- Diffusion welding in air --- solid state welding of butt joint by fusion welding, surface cleaning, and heating
[NASA-CASE-LEW-11387-1] c 37 N74-18128
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214
- Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549

HEATING EQUIPMENT

- Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- Portable heatable container
[NASA-CASE-NPO-14237-1] c 44 N80-20808
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
- Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

HEIGHT

- Sideloooking laser altimeter for a flight simulator
[NASA-CASE-ARC-11312-1] c 36 N83-34304

HELICAL ANTENNAS

- Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- Collapsible high gain antenna
[NASA-CASE-KSC-10392] c 07 N73-26117

HELICOPTER CONTROL

- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

HELICOPTER DESIGN

- Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809

HELICOPTER WAKES

- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018

HELICOPTERS

- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
- Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
- Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847
- Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
- Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

HELIOSTATS

- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

HELIUM

- Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229

Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082

HELIUM HYDROGEN ATMOSPHERES
Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334

HELIUM IONS
Charge transfer reaction laser with preionization means
[NASA-CASE-NPO-13945-1] c 36 N78-27402

HELIUM-NEON LASERS
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536

Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422

HELMETS
Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680

Emergency space-suit helmet
[NASA-CASE-MS-10954-1] c 54 N78-18761

Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

Polycarbonate article with chemical resistant coating
[NASA-CASE-MS-12503-1] c 27 N90-16925

HELMHOLTZ RESONATORS
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

HEMISPHERICAL SHELLS
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

HERMETIC SEALS
Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017

Hermetically sealed explosive release mechanism Patent
[NASA-CASE-XGS-00824] c 15 N71-16078

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164

Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910

Hermetic sealed vibration damper Patent
[NASA-CASE-MS-10959] c 15 N71-26243

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068

Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132

Hermetically sealed elbow actuator
[NASA-CASE-MFS-14710] c 09 N72-22195

Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552

Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493

Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334

Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-20181-1] c 33 N88-23941

HEXAGONS
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515

HEXAMETHYLENETETRAMINE
Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

HEXOKINASE
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487

HIGH ACCELERATION

Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

HIGH ALTITUDE

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231

HIGH ALTITUDE BALLOONS

Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598

HIGH ALTITUDE ENVIRONMENTS

Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779

HIGH ASPECT RATIO

Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286

Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858

Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

HIGH FREQUENCIES

Apparatus for ballasting high frequency transistors
[NASA-CASE-XGS-05003] c 09 N69-24318

Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311

Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929

JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515

HIGH GAIN

Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097

HIGH PASS FILTERS

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

HIGH POLYMERS

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

HIGH POWER LASERS

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616

Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542

HIGH PRESSURE

High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447

Antiflutter ball check valve Patent
[NASA-CASE-XNP-01152] c 15 N70-41811

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

High pressure air valve Patent
[NASA-CASE-MS-11010] c 15 N71-19485

Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234

High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044

Liquid aerosol dispenser
[NASA-CASE-MFS-20829] c 12 N72-21310

Gas compression apparatus
[NASA-CASE-MS-14757-1] c 35 N78-10428

Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MS-18422-1] c 37 N82-16408

Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971

Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

High-pressure promoted combustion chamber
[NASA-CASE-MS-21470-1] c 09 N90-16771

HIGH RESOLUTION

High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

HIGH SPEED

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915

Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225

Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692

High speed rolling element bearing
[NASA-CASE-LEW-10856-1] c 15 N72-22490

Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760

Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475

High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898

Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

HIGH SPEED CAMERAS

Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273

HIGH STRENGTH

Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539

High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436

HIGH STRENGTH ALLOYS

High temperature cobalt-base alloy Patent
[NASA-CASE-XLE-00726] c 17 N71-15644

Low temperature aluminum alloy Patent
[NASA-CASE-XMF-02786] c 17 N71-20743

Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153

Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535

Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

HIGH STRENGTH STEELS

Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203

Process for making a high toughness-high strength ion alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

HIGH TEMPERATURE

High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545

Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255

Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925

Method for fiberizing ceramic materials Patent
[NASA-CASE-NPO-00597] c 18 N71-23088

Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267

Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312

- Method of making fiber composites
[NASA-CASE-LEW-10424-2-2] c 18 N72-25539
- Method of forming superalloys
[NASA-CASE-LEW-10805-1] c 15 N73-13465
- High temperature beryllium oxide capacitor
[NASA-CASE-LEW-11938-1] c 33 N76-15373
- Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
- Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
- High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- HIGH TEMPERATURE AIR**
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144
- HIGH TEMPERATURE ENVIRONMENTS**
High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- HIGH TEMPERATURE FLUIDS**
Self-cycling fluid heater
[NASA-CASE-MSC-15567-1] c 33 N73-16918
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- HIGH TEMPERATURE GASES**
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
- Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032
- Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
- Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
- HIGH TEMPERATURE LUBRICANTS**
Method of making self lubricating fluoride- metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105

- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- HIGH TEMPERATURE PLASMAS**
Method and apparatus for producing a plasma Patent
[NASA-CASE-XLA-00147] c 25 N70-34661
- HIGH TEMPERATURE PROPELLANTS**
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- HIGH TEMPERATURE RESEARCH**
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
- HIGH TEMPERATURE TESTS**
High-temperature, high-pressure spherical segment valve Patent
[NASA-CASE-XAC-00074] c 15 N70-34817
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Apparatus for positioning and loading a test specimen Patent
[NASA-CASE-XLE-01300] c 15 N70-41993
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- HIGH VACUUM**
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913
- HIGH VACUUM ORBITAL SIMULATOR**
Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- HIGH VOLTAGES**
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
- High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201
- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
- High voltage distributor
[NASA-CASE-GSC-11849-1] c 33 N76-16332
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- High voltage power supply
[NASA-CASE-GSC-12818-1] c 33 N85-29147
- HIGHWAYS**
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
- HINGES**
Foldable beam
[NASA-CASE-LAR-12077-1] c 31 N81-25259
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

HISTOGRAMS

- Data compression system
[NASA-CASE-XNP-09785] c 08 N69-21928
- HOLDERS**
Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Holder for crystal resonators Patent
[NASA-CASE-XNP-03637] c 15 N71-21311
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
- Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- HOLE DISTRIBUTION (MECHANICS)**
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- HOLE GEOMETRY (MECHANICS)**
Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- HOLE MOBILITY**
Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- HOLES (MECHANICS)**
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- HOLLOW**
Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- HOLLOW CATHODES**
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- HOLMIUM**
Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856
- HOLOGRAPHIC INTERFEROMETRY**
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
- HOLOGRAPHY**
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565

- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328
Holographic motion picture camera with Doppler shift compensation
[NASA-CASE-MFS-22517-1] c 35 N76-18402
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584
- HOMING DEVICES**
Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- HONEYCOMB CORES**
Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Honeycomb core structures of minimal surface tubule sections
[NASA-CASE-ERC-10363] c 18 N72-25541
- HONEYCOMB STRUCTURES**
Method for making a heat insulating and ablative structure
[NASA-CASE-XMS-01108] c 15 N69-24322
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Honeycomb panels formed of minimal surface periodic tubule layers
[NASA-CASE-ERC-10364] c 18 N72-25540
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
Vacuum pressure molding technique
[NASA-CASE-LAR-10073-1] c 37 N76-24575
Honeycomb-laminate composite structure
[NASA-CASE-ARC-10913-1] c 24 N78-15180
Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149
Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- HOOP COLUMN ANTENNAS**
Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- HOPPERS**
Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814
- HORIZON SCANNERS**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943
Amplifier clamping circuit for horizon scanner Patent
[NASA-CASE-XGS-01784] c 10 N71-20782
- Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- HORIZONTAL SPACECRAFT LANDING**
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- HORIZONTAL TAIL SURFACES**
Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- HORN ANTENNAS**
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Horn feed having overlapping apertures Patent
[NASA-CASE-GSC-10452] c 07 N71-12396
Dual mode horn antenna Patent
[NASA-CASE-XNP-01057] c 07 N71-15907
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
- HOSES**
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- HOT CATHODES**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
- HOT CORROSION**
Castable hot corrosion resistant alloy
[NASA-CASE-LEW-14134-2] c 26 N89-14303
- HOT ISOSTATIC PRESSING**
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
- HOT PRESSING**
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- HOT WORKING**
Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- HOT-FILM ANEMOMETERS**
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N88-25355
- HOT-WIRE ANEMOMETERS**
Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- HOT-WIRE FLOWMETERS**
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- HOUSINGS**
Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
Universal environment package with sectional component housing
[NASA-CASE-KSC-10031] c 15 N72-22486
Gas flow control device
[NASA-CASE-NPO-11479] c 15 N73-13462
Cryogenic gyroscope housing --- with annular disks for gas spin-up
[NASA-CASE-MFS-21136-1] c 35 N74-18323
Heat transfer device
[NASA-CASE-NPO-11120-1] c 34 N74-18552
- Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- HOVERING**
Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- HUBBLE SPACE TELESCOPE**
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
- HUBS**
Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336
- HUGONIOT EQUATION OF STATE**
Determining particle density using known material Hugoniot curves
[NASA-CASE-LAR-11059-1] c 76 N75-12810
- HULLS (STRUCTURES)**
Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HUMAN BEINGS**
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Emergency escape system Patent
[NASA-CASE-XKS-07814] c 15 N71-27067
- HUMAN BODY**
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N89-14408
- HUMAN FACTORS ENGINEERING**
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729
Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735
Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736
Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Multi-adjustable headband --- for headsets
[NASA-CASE-KSC-11322-1] c 54 N89-29953
- HUMAN PERFORMANCE**
Color perception tester
[NASA-CASE-KSC-10278] c 05 N72-16015
- HUMAN REACTIONS**
Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256
- HUMAN WASTES**
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Automatic bio waste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

- Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362
- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
- HUMIDITY**
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- HUMIDITY MEASUREMENT**
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- HYBRID CIRCUITS**
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672
- Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MSC-20181-1] c 33 N88-23941
- HYBRID COMPUTERS**
- Adaptive voting computer system
[NASA-CASE-MSC-13932-1] c 62 N74-14920
- HYBRID PROPELLANTS**
- Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
- HYDRAULIC CONTROL**
- Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- Fluidic-thermochromic display device Patent
[NASA-CASE-ERC-10031] c 12 N71-18603
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- HYDRAULIC EQUIPMENT**
- Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
- Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Hydraulic grip Patent
[NASA-CASE-XLA-05100] c 15 N71-17696
- Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
- Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent
[NASA-CASE-XAC-00048] c 02 N71-29128
- Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
- Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
- Geysering inhibitor for vertical cryogenic transfer pipe
[NASA-CASE-KSC-10615] c 15 N73-12486
- Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Filter regeneration systems --- a system for regenerating a system filter in a fluid flow line
[NASA-CASE-MSC-14273-1] c 34 N75-33342
- Quick disconnect filter coupling
[NASA-CASE-MFS-22323-1] c 37 N76-14463
- Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] c 37 N84-28085
- Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- Control surface actuator
[NASA-CASE-LAR-12852-1] c 05 N89-11738

- Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
- HYDRAULIC FLUIDS**
- Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
- HYDRAULIC JETS**
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- HYDRAZINE ENGINES**
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- HYDRAZINE NITROFORM**
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- HYDRAZINES**
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDRIDES**
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- HYDROCARBON COMBUSTION**
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- HYDROCARBON FUEL PRODUCTION**
- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- HYDROCARBON FUELS**
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- HYDROCARBONS**
- Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] c 34 N86-12547
- Method and device for determining heats of combustion of gaseous hydrocarbons
[NASA-CASE-LAR-13528-1] c 25 N88-29002
- HYDROCHLORIC ACID**
- Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
- HYDROCHLORIDES**
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- HYDRODYNAMICS**
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- HYDROFOILS**
- Hydrofoil Patent
[NASA-CASE-XLA-00229] c 12 N70-33305
- HYDROFORMING**
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- HYDROGEN**
- Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Pulse activated polarographic hydrogen detector Patent
[NASA-CASE-XMF-06531] c 14 N71-17575
- Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442
- Analysis of hydrogen-deuterium mixtures
[NASA-CASE-NPO-11322] c 06 N72-25146
- Hydrogen fire blink detector
[NASA-CASE-MFS-15063] c 14 N72-25412

- Process for separation of dissolved hydrogen from water by use of palladium and process for coating palladium with palladium black
[NASA-CASE-MSC-13335-1] c 06 N72-31140
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
- Atomic standard with variable storage volume
[NASA-CASE-GSC-11895-1] c 35 N76-15436
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
- Hydrogen-bromine secondary battery
[NASA-CASE-NPO-13237-1] c 44 N76-18641
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13464-1] c 44 N76-18642
- Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516
- Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253
- HYDROGEN ATOMS**
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- HYDROGEN EMBRITTLEMENT**
- Prevention of hydrogen embrittlement of high strength steel by hydrazine compositions --- by adding potassium hydroxide to hydrazine
[NASA-CASE-NPO-12122-1] c 24 N76-14203
- HYDROGEN ENGINES**
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- HYDROGEN FUELS**
- Hydrogen rich gas generator
[NASA-CASE-NPO-13342-2] c 44 N76-29700
- Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
- Hydrogen-rich gas generator
[NASA-CASE-NPO-13560-1] c 44 N77-10636
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- HYDROGEN IONS**
- Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- HYDROGEN OXYGEN FUEL CELLS**
- Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052
- Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
- HYDROGEN PEROXIDE**
- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504
- HYDROGEN PRODUCTION**
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
- HYDROGENATION**
- Production of high purity silicon carbide Patent
[NASA-CASE-XLA-00158] c 26 N70-36805
- Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- HYDROLOGY**
- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
- HYDROLYSIS**
- Hydrodesulfurization of chlorinated coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- HYDROSTATIC PRESSURE**
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
- HYDROSTATICS**
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486

HYDROXIDES

- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- Synthesis of dawsonites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

HYDROXYL COMPOUNDS

- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

HYGIENE

- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

HYGROMETERS

- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

HYGROSCOPICITY

- Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934

HYPERCUBE MULTIPROCESSORS

- A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084

HYPERFINE STRUCTURE

- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142

HYPERGOLIC ROCKET PROPELLANTS

- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
- Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634

HYPERSONIC AIRCRAFT

- Multistage aerospace craft --- perspective drawings of conceptual design
[NASA-CASE-XMF-02263] c 05 N74-10907

HYPERSONIC FLIGHT

- Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

HYPERSONIC FLOW

- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYPERSONIC SPEED

- Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262
- Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10612-1] c 12 N73-28144

HYPERSONIC VEHICLES

- Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015

HYPERSONIC WIND TUNNELS

- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N88-30105

HYPERTHERMIA

- Hypertermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

HYPERVELOCITY GUNS

- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- Collapsible pistons
[NASA-CASE-MSC-13789-1] c 11 N73-32152
- Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

HYPERVELOCITY IMPACT

- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

HYPERVELOCITY PROJECTILES

- Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
- Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

HYPERVELOCITY WIND TUNNELS

- Hypersonic test facility Patent
[NASA-CASE-XLA-00378] c 11 N71-15925
- Hypersonic test facility Patent
[NASA-CASE-XLA-05378] c 11 N71-21475

HYSTERESIS

- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504

ICE

- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149

IDENTIFYING

- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779

IGNITERS

- Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

IGNITION

- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

IGNITION LIMITS

- High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518

IGNITION SYSTEMS

- Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
- Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
- Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
- Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
- Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

IGNITION TEMPERATURE

- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629

ILLUMINATORS

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292

IMAGE ANALYSIS

- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360

IMAGE CONTRAST

- Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341

- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

IMAGE CONVERTERS

- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
- Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

IMAGE CORRELATORS

- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Automatic focus control for facsimile cameras
[NASA-CASE-LAR-11213-1] c 35 N75-15014
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

IMAGE DISSECTOR TUBES

- Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

IMAGE ENHANCEMENT

- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706
- Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

IMAGE FILTERS

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
- Physical correction filter for improving the optical quality of an image
[NASA-CASE-HQN-10542-1] c 74 N75-25706

IMAGE INTENSIFIERS

- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

IMAGE PROCESSING

- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541
- Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

IMAGE RESOLUTION

- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

IMAGE ROTATION

- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

IMAGE TUBES

- Image tube --- deriving electron beam replica of image
[NASA-CASE-GSC-11602-1] c 33 N74-21850
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

IMAGERY

- Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N88-24944
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

IMAGES

- Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
- Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

IMAGING RADAR

- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

IMAGING TECHNIQUES

- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868

- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
- Data storage, image tube type
[NASA-CASE-MSC-14053-1] c 60 N74-12888
- Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Full color hybrid display for aircraft simulators --- landing aids
[NASA-CASE-ARC-10903-1] c 09 N78-18083
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
- Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N88-30105
- Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- IMIDES**
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
- Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590

- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
- Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692
- Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- IMINES**
- Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740
- IMMOBILIZATION**
- Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159
- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- Active hold-down for heat treating
[NASA-CASE-NPO-16892-1-CU] c 37 N87-14704
- IMPACT**
- Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
- Cosmic dust or other similar outer space particles impact location detector
[NASA-CASE-GSC-11291-1] c 25 N72-33696
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
- IMPACT ACCELERATION**
- Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
- IMPACT DAMAGE**
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- IMPACT LOADS**
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- IMPACT RESISTANCE**
- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Hybrid composite laminate structures
[NASA-CASE-LEW-12118-1] c 24 N77-27188
- IMPACT STRENGTH**
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- IMPACT TESTING MACHINES**
- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Impact testing machine Patent
[NASA-CASE-XNP-04817] c 14 N71-23225
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TESTS**
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- IMPACT TOLERANCES**
- High impact antenna Patent
[NASA-CASE-NPO-10231] c 07 N71-26101
- Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
- IMPEDANCE**
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Power supply conditioning circuit
[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

IMPEDANCE MATCHING

- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
- Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573
- Triaxial antenna Patent
[NASA-CASE-XGS-02290] c 07 N71-28809

IMPEDANCE MEASUREMENT

- High impedance measuring apparatus Patent
[NASA-CASE-XMS-08589-1] c 09 N71-20569
- Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650

IMPELLERS

- Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

IMPLANTATION

- Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744

IMPLANTED ELECTRODES (BIOLOGY)

- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

IMPLOSIONS

- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578

IMPREGNATING

- Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
- High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908

IMPULSE GENERATORS

- Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

IMPURITIES

- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105

IN-FLIGHT MONITORING

- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300

INCIDENCE

- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880

INCIDENT RADIATION

- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

INCLINATION

- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

INCOHERENT SCATTERING

- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859

INDICATING INSTRUMENTS

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132

- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173
- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075
- Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
- Adjustable indicating device for load position
[NASA-CASE-MSC-28008-1] c 35 N85-20300
- Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
- INDIUM ALLOYS**
- Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621
- INDIUM COMPOUNDS**
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- INDUCTANCE**
- Current dependent filter inductance
[NASA-CASE-ERC-10139] c 09 N72-17154
- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- INDUCTION HEATING**
- Induction furnace with perforated tungsten foil shielding
Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- INDUCTION MOTORS**
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Power factor control system for AC induction motors
[NASA-CASE-MFS-23280-1] c 33 N78-10376
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Electrical power generating system
[NASA-CASE-MFS-25302-1] c 33 N83-28319
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] c 33 N84-22886
- Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660
- Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
- Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769
- Power control for ac motor
[NASA-CASE-MFS-25861-1] c 33 N85-22877
- INDUCTORS**
- Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- INDUSTRIAL PLANTS**
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- INDUSTRIAL WASTES**
- Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
- Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- INERT ATMOSPHERE**
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432
- INERTIA**
- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744
- INERTIAL CONFINEMENT FUSION**
- Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
- Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940
- INERTIAL GUIDANCE**
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- INERTIAL NAVIGATION**
- Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- INERTIAL PLATFORMS**
- Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
- Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289
- Temperature compensated digital inertial sensor --- circuit for maintaining inertial element of gyroscope or accelerometer at constant position
[NASA-CASE-NPO-13044-1] c 35 N74-15094
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- INERTIAL REFERENCE SYSTEMS**
- Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159
- Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098
- INFLATABLE SPACECRAFT**
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Rotating mandrel for assembly of inflatable devices Patent
[NASA-CASE-XLA-01413] c 15 N71-17687
- Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052
- Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
- INFLATABLE STRUCTURES**
- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981
- Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
- Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536
- Inflatable radar reflector unit Patent
[NASA-CASE-XMS-00893] c 07 N70-40063
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
- Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680
- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Inflatable transparent cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
- Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
- Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104
- INFORMATION RETRIEVAL**
- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- INFRARED DETECTORS**
- Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
- Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
- Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
- Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
- Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210
- Broadband optical radiation detector
[US-PATENT-4,262,198] c 74 N83-19597
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
- Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329
- INFRARED INSTRUMENTS**
- Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- INFRARED INTERFEROMETERS**
- Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
- INFRARED LASERS**
- Monitoring atmospheric pollutants with a heterodyne radiometer transmitter-receiver
[NASA-CASE-NPO-11919-1] c 35 N74-11284
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- INFRARED PHOTOMETRY**
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- INFRARED RADIATION**
- High-speed infrared furnace
[NASA-CASE-XLE-10466] c 17 N69-25147
- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- INFRARED REFLECTION**
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- INFRARED SCANNERS**
- Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181
- Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- INFRARED SPECTRA**
- Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- INFRARED SPECTROMETERS**
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

INFRARED SPECTROSCOPY

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

INFRARED SPECTROSCOPY

Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348

INFRARED TELESCOPES

Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125

INFRASONIC FREQUENCIES

Resonant infrasonic gauging apparatus
[NASA-CASE-MSC-11847-1] c 14 N72-11363

INHIBITORS

Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

INITIATORS (EXPLOSIVES)

Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930

Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599

Electroexplosive device
[NASA-CASE-NPO-13858-1] c 28 N79-11231

Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

INJECTION

Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

INJECTION LASERS

Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305

INJECTORS

Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710

Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213

Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654

Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736

Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809

Coaxial injector for reaction motors
[NASA-CASE-NPO-11095] c 15 N72-25455

Injector for use in high voltage isolators for liquid feed lines
[NASA-CASE-NPO-11377] c 15 N73-27406

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

INKS

Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

INLET FLOW

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Gas turbine combustor Patent
[NASA-CASE-LEW-10286-1] c 28 N71-28915

Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976

INLET NOZZLES

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

INLET PRESSURE

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

INOCULATION

Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502

INORGANIC COATINGS

Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128

Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233

INORGANIC COMPOUNDS

Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337

Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566

Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530

Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910

INORGANIC PEROXIDES

Process for preparing higher oxides of the alkali and alkaline earth metals
[NASA-CASE-ARC-10992-1] c 26 N78-32229

Process for the preparation of calcium superoxide
[NASA-CASE-ARC-11053-1] c 25 N79-10162

INPUT

Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

INPUT/OUTPUT ROUTINES

Analog to digital converter
[NASA-CASE-NPO-13385-1] c 33 N76-18345

INSERTION

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means
[NASA-CASE-NPO-13910-1] c 52 N79-27836

INSERTION LOSS

Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057

INSERTS

Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736

Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

INSPECTION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330

Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N88-23983

INSTALLING

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443

INSTRUMENT COMPENSATION

Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

INSTRUMENT ERRORS

Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239

INSTRUMENT FLIGHT RULES

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

INSTRUMENT ORIENTATION

Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736

Azimuth laying system Patent
[NASA-CASE-MFO-01669] c 21 N71-23289

Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637

INSTRUMENT PACKAGES

Apparatus for ejection of an instrument cover
[NASA-CASE-XMF-04132] c 15 N69-27502

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461

Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523

INSTRUMENTS

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752

Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965

Self-calibrating displacement transducer Patent
[NASA-CASE-XLA-00781] c 09 N71-22999

Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327

Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842

Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425

INSULATED STRUCTURES

Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935

INSULATION

Electrode construction Patent
[NASA-CASE-ARC-10043-1] c 05 N71-11193

Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998

Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444

Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226

Insulated electrocardiographic electrodes --- without paste electrolyte
[NASA-CASE-MSC-14339-1] c 05 N75-24716

Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376

Two-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-1] c 27 N76-22377

Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426

Field effect transistor and method of construction thereof
[NASA-CASE-MFS-23312-1] c 33 N78-27326

Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388

Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807

Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

INSULATORS

Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574

High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763

INTAKE SYSTEMS

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456

Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278

Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510

Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

Solid sorbent air sampler
[NASA-CASE-MSC-20653-1] c 35 N86-26595

INTEGRATED CIRCUITS

Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897

Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717

- Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- Integrated circuit including field effect transistor and cermet resistor
[NASA-CASE-GSC-10835-1] c 09 N72-33205
- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MS-C-13907-1] c 10 N73-26230
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Integrated circuit package with lead structure and method of preparing the same
[NASA-CASE-MFS-21374-1] c 33 N74-12951
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Integrable power gyrator --- with Z-matrix design using parallel transistors
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- Cross correlation anomaly detection system
[NASA-CASE-NPO-13283] c 38 N78-17395
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679
- Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
- INTEGRATORS**
- Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Variable width pulse integrator Patent
[NASA-CASE-XLA-03356] c 10 N71-23315
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- INTEGRITY**
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272
- INTERFACES**
- Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958
- Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384
- Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554
- High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- INTERFACIAL TENSION**
- Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578
- INTERFEROMETERS**
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215
- Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
- Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888
- Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
- Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
- INTERFEROMETRY**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- INTERLAYERS**
- Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- INTERMEDIATE FREQUENCY AMPLIFIERS**
- Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321
- INTERMETALLICS**
- Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
- Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
- Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- INTERNAL COMBUSTION ENGINES**
- Fuel injection pump for internal combustion engines Patent
[NASA-CASE-MSC-12139-1] c 28 N71-14058
- Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
- System for preconditioning a combustible vapor
[NASA-CASE-NPO-12072] c 28 N72-22772
- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
- Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
- Hydrogen-fueled engine
[NASA-CASE-NPO-13763-1] c 44 N78-33526
- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- Start up system for hydrogen generator used with an internal combustion engine
[NASA-CASE-NPO-13849-1] c 28 N80-10374
- Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- INTERPLANETARY SPACE**
- Heat shield Patent
[NASA-CASE-XMS-00486] c 33 N70-33344
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- INTERPLANETARY SPACECRAFT**
- Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- INTERPLANETARY TRAJECTORIES**
- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- INTERVALS**
- Apparatus for using a time interval counter to measure frequency stability
[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005
- INTRACRANIAL PRESSURE**
- Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691
- INTRAOCULAR PRESSURE**
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- INTRAVEHICULAR ACTIVITY**
- Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
- INTRAVENOUS PROCEDURES**
- Bio-medical flow sensor --- intravenous procedures
[NASA-CASE-MSC-18761-1] c 52 N83-27577
- INTRUSION**
- Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
- INVENTIONS**
- Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- INVERTED CONVERTERS (DC TO AC)**
- Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
- Variable frequency inverter for ac induction motors with torque, speed and braking control
[NASA-CASE-MFS-22088-1] c 33 N75-15874
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- INVERTERS**
- Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10780] c 09 N72-25254
- Overload protection system for power inverter
[NASA-CASE-MPO-13872-1] c 33 N78-10377
- Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- INVESTIGATION**
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- IODINE**
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
- IODINE COMPOUNDS**
- Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016
- IODINE ISOTOPES**
- Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681
- Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

ION ACCELERATORS

- Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- ION ACCELERATORS**
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
- ION BEAMS**
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] c 31 N85-20153
Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
Heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] c 20 N87-16875
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- ION CHARGE**
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- ION CONCENTRATION**
Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- ION CURRENTS**
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- ION CYCLOTRON RADIATION**
Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492
- ION DENSITY (CONCENTRATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- ION ENGINES**
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Apparatus for increasing ion engine beam density Patent
[NASA-CASE-XLE-00519] c 28 N70-41576
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518

- Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23681
Electronic cathode having a brush-like structure and a relatively thick oxide emissive coating Patent
[NASA-CASE-XLE-04501] c 09 N71-23190
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Single grid accelerator for an ion thruster
[NASA-CASE-XLE-10453-2] c 28 N73-27699
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Method of constructing dished ion thruster grids to provide hole array spacing compensation
[NASA-CASE-LEW-11876-1] c 20 N76-21276
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- ION EXCHANGE MEMBRANE ELECTROLYTES**
Method of making membranes
[NASA-CASE-XNP-04264] c 03 N69-21337
Ion-exchange membrane with platinum electrode assembly Patent
[NASA-CASE-XMS-02063] c 03 N71-29044
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- ION EXCHANGE RESINS**
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- ION EXCHANGING**
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- ION EXTRACTION**
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] c 72 N84-16959
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- ION IMPLANTATION**
Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- ION IRRADIATION**
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- ION MOTION**
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
- ION PLATING**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- ION PROBES**
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863

ION PROPULSION

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMP-00923] c 28 N70-36802
Ion rocket Patent
[NASA-CASE-XLE-00376] c 28 N70-37245
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
Double optic system for ion engine Patent
[NASA-CASE-XNP-02839] c 28 N70-41922
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
Apparatus for forming dished ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- ION PUMPS**
Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- ION SOURCES**
Focusing system for an ion source having apertured electrodes Patent
[NASA-CASE-XNP-03332] c 09 N71-10618
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Ion thruster accelerator system Patent
[NASA-CASE-LEW-10106-1] c 28 N71-26642
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Hydrogen hollow cathode ion source
[NASA-CASE-LEW-12940-1] c 72 N80-33186
- ION TRAPS (INSTRUMENTATION)**
Method and apparatus for measurement of trap density and energy distribution in dielectric films
[NASA-CASE-NPO-13443-1] c 76 N76-20994
- IONIC MOBILITY**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- IONIZATION**
Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- IONIZATION CHAMBERS**
Baseline stabilization system for ionization detector Patent
[NASA-CASE-XNP-03128] c 10 N70-41991
Electron bombardment ion engine Patent
[NASA-CASE-XNP-04124] c 28 N71-21822
A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090
Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464
- IONIZATION CROSS SECTIONS**
Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
[NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
- IONIZATION GAGES**
Ionization vacuum gauge Patent
[NASA-CASE-XNP-00646] c 14 N70-35666
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090

Apparatus for ionization analysis
[NASA-CASE-ARC-10017-1] c 14 N72-29464

Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391

IONIZATION POTENTIALS

Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678

Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

IONIZED GASES

Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491

IONIZERS

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310

Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

IONIZING RADIATION

High-voltage cable Patent
[NASA-CASE-XNP-00738] c 09 N70-38201

Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126

Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840

IONOSPHERIC DISTURBANCES

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC ELECTRON DENSITY

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONOSPHERIC SOUNDING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

IONS

Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477

IRIDIUM

Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

IRISES (MECHANICAL APERTURES)

Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170

Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172

IRON

Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721

IRON ALLOYS

Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

Process for making a high toughness-high strength iron alloy
[NASA-CASE-LEW-12542-2] c 26 N79-22271

High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

IRON CHLORIDES

Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205

IRON COMPOUNDS

Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246

IRRADIATION

Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269

IRRIGATION

Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701

ISOLATION

High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

ISOLATORS

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Positive isolation disconnect
[NASA-CASE-MSC-16043-1] c 37 N79-11402

Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350

Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

ISOPROPYL ALCOHOL

Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102

ISOTHERMAL LAYERS

Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353

ISOTHERMAL PROCESSES

Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366

ISOTOPE SEPARATION

Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

J

JET AIRCRAFT

Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800

JET AIRCRAFT NOISE

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418

Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218

Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

JET AMPLIFIERS

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Fluid jet amplifier Patent
[NASA-CASE-XLE-09341] c 12 N71-28741

JET BLAST EFFECTS

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

JET CONTROL

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

JET ENGINES

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515

Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270

Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117

The engine air intake system
[NASA-CASE-ARC-10761-1] c 07 N77-18154

Stator rotor tools
[NASA-CASE-MSC-16000-1] c 37 N78-24544

Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483

Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749

JET EXHAUST

Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490

Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089

Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

JET FLAPS

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332

JET FLOW

Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292

JET MIXING FLOW

Rocket engine injector Patent
[NASA-CASE-XLE-00111] c 28 N70-38199

JET NOZZLES

Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466

Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629

Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093

JET PROPULSION

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

JET PUMPS

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

JET THRUST

Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583

Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039

Method and system for monitoring and displaying engine performance parameters
[NASA-CASE-LAR-14049-1] c 07 N89-23466

JETTISON SYSTEMS

Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675

Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853

Explosively activated egress area
[NASA-CASE-LAR-12624-1] c 01 N83-35992

JIGS

Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447

JOINING

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

JOINTS (ANATOMY)

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616

Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749

Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

JOINTS (JUNCTIONS)

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947

Portable alignment tool Patent
[NASA-CASE-XMF-01452] c 15 N70-41371

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344

Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method and apparatus for precision sizing and joining of large diameter tubes Patent
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[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961
- Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
- Method and apparatus for reducing speckle
[NASA-CASE-LAR-13771-1] c 36 N89-14428
- Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

LASER PLASMAS

- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416

LASER POWER BEAMING

- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204

LASER PUMPING

- Laser apparatus
[NASA-CASE-GSC-12237-1] c 36 N80-14384
- Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
- Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

LASER RANGE FINDERS

- Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396
- Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

LASER RANGER/TRACKER

- Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125

LASER SPECTROMETERS

- Method and apparatus for enhancing laser absorption sensitivity
[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

LASER SPECTROSCOPY

- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
[NASA-CASE-NPO-15102-1] c 25 N81-25159

LASER WINDOWS

- Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866

LASERS

- Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291
- Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410
- Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- Tunable cavity resonator with ramp shaped supports
[NASA-CASE-HQN-10790-1] c 36 N74-11313
- Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11858-1] c 36 N74-15145
- Long range laser traversing system
[NASA-CASE-GSC-11262-1] c 36 N74-21091
- Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
- Acoustically controlled distributed feedback laser
[NASA-CASE-NPO-13175-1] c 36 N75-31427
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] c 35 N84-22929
- Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
- Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862

LASING

- Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732

LATCHES

- Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Latch/ejector unit Patent
[NASA-CASE-XLA-03538] c 15 N71-24897
- Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

- Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903
- Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
- Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
- Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Toggle release
[NASA-CASE-MSC-21354-1] c 37 N88-24969
- Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138

LATERAL CONTROL

- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631

LATERAL STABILITY

- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

LATEX

- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

LATHES

- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831

LAUNCH ESCAPE SYSTEMS

- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199
- Device for separating occupant from an ejection seat Patent
[NASA-CASE-XMS-04625] c 05 N71-20718

LAUNCH VEHICLE CONFIGURATIONS

- Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

LAUNCH VEHICLES

- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
- Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787
- Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582

LAUNCHERS

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609
- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

LAUNCHING PADS

- Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292

- LAY-UP**
Method of making a partial interlaminar separation composite system
[NASA-CASE-LAR-12065-2] c 24 N81-33235
- LAYERS**
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- LEACHING**
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- LEAD (METAL)**
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- LEAD SULFIDES**
Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- LEAD TELLURIDES**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
- LEADING EDGE FLAPS**
Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- LEADING EDGES**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- LEAKAGE**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
Method for detecting leaks in hermetically sealed containers Patent
[NASA-CASE-ERC-10045] c 15 N71-24910
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597
Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
Fluid leak indicator
[NASA-CASE-MSC-20783-1] c 35 N86-20756
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
- LEG (ANATOMY)**
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
- Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- LENSES**
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Projection lens scanning laser velocimeter system
[NASA-CASE-ARC-11547-1] c 36 N87-17026
Dual mode laser velocimeter
[NASA-CASE-ARC-11634-1] c 36 N88-14350
- LENTICULAR BODIES**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
- LESIONS**
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
- LEVEL (HORIZONTAL)**
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- LEVEL (QUANTITY)**
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Positive dc to positive dc converter Patent
[NASA-CASE-XMF-14301] c 09 N71-23188
- LEVELING**
Adjustable attitude guide device Patent
[NASA-CASE-XLA-07911] c 15 N71-15571
Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
- LEVITATION**
Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
Closed loop electrostatic levitation system
[NASA-CASE-NPO-15553-1] c 33 N85-29142
- LEVITATION MELTING**
High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- LIFE (DURABILITY)**
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651
- LIFE DETECTORS**
Use of the enzyme hexokinase for the reduction of inherent light levels
[NASA-CASE-XGS-05533] c 04 N69-27487
Lyophilized reaction mixtures Patent
[NASA-CASE-XGS-05532] c 06 N71-17705
- LIFE RAFTS**
Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
- LIFE SUPPORT SYSTEMS**
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Extravehicular tunnel suit system Patent
[NASA-CASE-MSC-12243-1] c 05 N71-24728
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Orbital escape device Patent
[NASA-CASE-XMS-06162] c 31 N71-28851
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Life support system
[NASA-CASE-MSC-12411-1] c 05 N72-20096
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012
Catalyst cartridge for carbon dioxide reduction unit
[NASA-CASE-LAR-10551-1] c 25 N74-12813
Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
- LIFT**
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- LIFT DEVICES**
Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
High lift aircraft --- with improved stability, control, performance, and noise characteristics
[NASA-CASE-LAR-11252-1] c 05 N75-25914
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108
Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
[NASA-CASE-LAR-13870-1] c 05 N90-15094
- LIFT DRAG RATIO**
Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- LIFTING BODIES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217
Lift balancing device
[NASA-CASE-LAR-10348-1] c 11 N73-12264
- LIFTING REENTRY VEHICLES**
Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924
Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- LIFTING ROTORS**
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- LIGANDS**
Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- LIGHT (VISIBLE RADIATION)**
Anti-glare improvement for optical imaging systems Patent
[NASA-CASE-NPO-10337] c 14 N71-15604

LIGHT AIRCRAFT

- Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- Combustion detector
[NASA-CASE-LAR-10739-1] c 14 N73-16484
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750
- LIGHT AIRCRAFT**
- Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
- LIGHT BEAMS**
- Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
- Multiple hologram recording and readout system Patent
[NASA-CASE-ERC-10151] c 16 N71-29131
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- LIGHT EMISSION**
- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N89-14119
- LIGHT EMITTING DIODES**
- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733
- Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
- Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733
- LIGHT GAS GUNS**
- Hypervelocity gun Patent
[NASA-CASE-XAC-05902] c 11 N71-18578
- LIGHT MODULATION**
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
- Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
- Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
- LIGHT SCATTERING**
- The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
- LIGHT SCATTERING METERS**
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- LIGHT SOURCES**
- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
- High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821

- Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
- Ultrastable calibrated light source
[NASA-CASE-MS-C-12293-1] c 14 N72-27411
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Very high intensity light source using a cathode ray tube --- electron beams
[NASA-CASE-XNP-01296] c 33 N75-27250
- Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318
- Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
- LIGHT TRANSMISSION**
- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Optical frequency waveguide and transmission system
[NASA-CASE-HQN-10541-3] c 23 N72-23695
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879
- Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
- Light transmitting window assembly
[NASA-CASE-MS-C-18417-1] c 74 N85-29750
- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304
- Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
- LIGHT VALVES**
- Liquid crystal light valve structures
[NASA-CASE-MS-C-20036-1] c 76 N85-33826
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- LIGHTING EQUIPMENT**
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Pressurized lighting system
[NASA-CASE-KSC-10644] c 09 N72-27227
- Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
- LIGHTNING**
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Lightning tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
- Lightning current measuring systems
[NASA-CASE-KSC-10807-1] c 33 N75-26246
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
- LIMBS (ANATOMY)**
- Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
- Apparatus for determining changes in limb volume
[NASA-CASE-MS-C-18759-1] c 52 N83-27578
- LIMITER CIRCUITS**
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844
- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096

- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- LINE SPECTRA**
- Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015
- Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679
- LINEAR ACCELERATORS**
- Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
- LINEAR ARRAYS**
- Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- LINEAR CIRCUITS**
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- LINEAR INTEGRATED CIRCUITS**
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- LINEAR POLARIZATION**
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- LINEAR PROGRAMMING**
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- LINEAR RECEIVERS**
- Antenna array at focal plane of reflector with coupling network for beam switching Patent
[NASA-CASE-XSC-10220-1] c 07 N71-27233
- LINEAR SYSTEMS**
- Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
- A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- LINEARITY**
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71-NPO-15494-2] c 35 N85-34373
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- LININGS**
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
- Multi-path peristaltic pump
[NASA-CASE-MS-C-20907-1] c 37 N87-18818
- Tapered, tubular polyester fabric
[NASA-CASE-MS-C-21082-1] c 27 N87-29672
- Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N89-23739
- Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824
- LINKAGES**
- Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Preloadable vector sensitive latch
[NASA-CASE-MS-C-20910-1] c 37 N87-25582
- Payload deployment method and system
[NASA-CASE-MS-C-21330-1] c 16 N88-24660
- Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
- Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
- LIQUEFACTION**
- Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640

LIQUID ATOMIZATION

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

LIQUID BEARINGS

High speed hybrid bearing comprising a fluid bearing and a rolling bearing convected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841

LIQUID CHROMATOGRAPHY

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

LIQUID COOLING

Water cooled contactor for anode in carbon arc mechanism
[NASA-CASE-XMS-03700] c 15 N69-24266
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114-2] c 09 N71-24807
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
Heat exchanger system and method
[NASA-CASE-LAR-10799-2] c 34 N76-17317
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

LIQUID CRYSTALS

Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

LIQUID FILLED SHELLS

Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265

LIQUID FLOW

Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074
Ablative system
[NASA-CASE-LEW-10359-2] c 33 N73-25952
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
Degassifying and mixing apparatus for liquids --- potable water for spacecraft
[NASA-CASE-MSC-18936-1] c 35 N83-29652
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930

LIQUID HELIUM

Heat operated cryogenic electrical generator
[NASA-CASE-NPO-13303-1] c 20 N75-24837
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Cryostat system for temperatures on the order of 2 deg K or less
[NASA-CASE-NPO-13459-1] c 31 N77-10229
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Low cost cryostat
[NASA-CASE-NPO-14513-1] c 35 N81-14287

LIQUID HYDROGEN

Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Reinforced polyquinoxaline gasket and method of preparing the same --- resistant to ionizing radiation and liquid hydrogen temperatures
[NASA-CASE-MFS-21364-1] c 37 N74-18126
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-2] c 28 N86-23744
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID INJECTION

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582
Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660
Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433

LIQUID LASERS

Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343

LIQUID LEVELS

Inductive liquid level detection system Patent
[NASA-CASE-XLE-01609] c 14 N71-10500

LIQUID METALS

Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Analytical test apparatus and method for determining oxide content of alkali metal Patent
[NASA-CASE-XLE-01997] c 06 N71-23527
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Shell side liquid metal boiler
[NASA-CASE-NPO-10831] c 33 N72-20915
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129
Electromagnetic flow rate meter --- for liquid metals
[NASA-CASE-LEW-10981-1] c 35 N74-21018
Process for preparing liquid metal electrical contact device
[NASA-CASE-LEW-11978-1] c 33 N77-26385
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027

LIQUID NITROGEN

Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484

LIQUID OXYGEN

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974

LIQUID PHASES

Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635

Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Cryogenic liquid sensor
[NASA-CASE-NPO-10619-1] c 35 N77-21393
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

LIQUID PROPELLANT ROCKET ENGINES

Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Attitude and propellant flow control system and method Patent
[NASA-CASE-XMF-00185] c 21 N70-34539
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

LIQUID ROCKET PROPELLANTS

Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
Rocket motor system Patent
[NASA-CASE-XLE-00323] c 28 N70-38505
High temperature spark plug Patent
[NASA-CASE-XLE-00660] c 28 N70-39925
High pressure filter Patent
[NASA-CASE-XNP-00732] c 28 N70-41447
Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Control valve and co-axial variable injector Patent
[NASA-CASE-XNP-09702] c 15 N71-17654
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130

LIQUID SLOSHING

Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Flexible ring slosh damping baffle Patent
[NASA-CASE-LAR-10317-1] c 32 N71-16103
Buoyant anti-slosh system Patent
[NASA-CASE-XLA-04605] c 32 N71-16106
Hot wire liquid level detector for cryogenic fluids Patent
[NASA-CASE-XLE-00454] c 23 N71-17802
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387

LIQUID SODIUM

Sodium storage and injection system
[NASA-CASE-NPO-14384-1] c 37 N80-10494

LIQUID-GAS MIXTURES

Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297

LIQUID-SOLID INTERFACES

- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269

LIQUID-SOLID INTERFACES

- Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713

LIQUID-VAPOR INTERFACES

- Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- Response analyzers for sensors Patent
[NASA-CASE-MFS-11204] c 14 N71-29134
- Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

LIQUIDS

- Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
- Electrical switching device Patent
[NASA-CASE-NPO-10037] c 09 N71-19610
- Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
- Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
- Resonant infrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
- Ablative system
[NASA-CASE-LEW-10359] c 33 N72-25911
- Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
- Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
- Bimetallic fluid displacement apparatus --- for stirring and heating stored gases and liquids
[NASA-CASE-ARC-10441-1] c 35 N74-15126
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MS-C-14187-1] c 35 N74-32879
- Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
- Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- Low gravity phase separator
[NASA-CASE-MS-C-14773-1] c 35 N78-12390
- Automatic fluid dispenser
[NASA-CASE-ARC-10820-1] c 35 N78-19466
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993
- Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
- Tank gauging apparatus and method
[NASA-CASE-MS-C-21059-1] c 35 N89-12843

LITHIUM

- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

LITHIUM ALLOYS

- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

LITHIUM COMPOUNDS

- Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

LOAD DISTRIBUTION (FORCES)

- Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
- Multiple Belleville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629

LOAD TESTING MACHINES

- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441

- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400

- Fatigue failure load indicator
[NASA-CASE-LAR-12027-1] c 39 N79-22537
- Portable 90 degree proof loading device
[NASA-CASE-MS-C-20250-1] c 35 N86-19581
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361

LOADING OPERATIONS

- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586
- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

LOAD TESTS

- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601

LOADING OPERATIONS

- Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722

LOADS (FORCES)

- Device for handling heavy loads
[NASA-CASE-XNP-04969] c 11 N69-27466
- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
- Load relieving device Patent
[NASA-CASE-XMS-06329-1] c 15 N71-20441
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
- Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Force-balanced, throttle valve Patent
[NASA-CASE-NPO-10808] c 15 N71-27432
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Air bearing
[NASA-CASE-WLP-10002] c 15 N72-17451
- Device for measuring bearing preload
[NASA-CASE-MFS-20434] c 11 N72-25288

- Variable direction force coupler
[NASA-CASE-MFS-20317] c 15 N73-13463
- Ergometer
[NASA-CASE-MFS-21109-1] c 05 N73-27941
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
- Load regulating latch
[NASA-CASE-MS-C-19535-1] c 37 N77-32499
- Adjustable indicating device for load position
[NASA-CASE-MFS-28008-1] c 35 N85-20300
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Fatigue testing apparatus
[NASA-CASE-LEW-14124-1] c 35 N89-28806
- Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442

LOCAL AREA NETWORKS

- Local area network with fault-checking, priorities, and redundant backup
[NASA-CASE-NPO-16949-1-CU] c 62 N90-19776

LOCATES SYSTEM

- Lighting tracking system
[NASA-CASE-KSC-10729-1] c 09 N73-32110
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250

LOCKING

- Coupling device
[NASA-CASE-XMS-07846-1] c 09 N69-21927
- Self-locking mechanical center joint
[NASA-CASE-LAR-12864-1] c 37 N85-30336

- Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
- Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619
- Locking hinge
[NASA-CASE-MS-C-21056-1] c 18 N88-23827
- Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787

LOCKS (FASTENERS)

- Locking device with rolling detents Patent
[NASA-CASE-XMF-01371] c 15 N70-41829
- Bearing and gimbal lock mechanism and spiral flex lead module Patent
[NASA-CASE-GSC-10556-1] c 31 N71-26537
- Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MS-C-18526-1] c 37 N82-24494
- Aircraft canopy lock
[NASA-CASE-FRC-11065-1] c 05 N83-19737
- Collet lock joint for space station truss
[NASA-CASE-MS-C-21207-1] c 37 N88-29180
- Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787

LOCOMOTION

- Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380
- Training vehicle for controlling attitude Patent
[NASA-CASE-XMS-02977] c 11 N71-10746
- Restraint torso for a pressurized suit
[NASA-CASE-MS-C-12397-1] c 05 N72-25119
- Kinesimetric method and apparatus
[NASA-CASE-MSC-18929-1] c 39 N83-20280

LOGARITHMIC RECEIVERS

- Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

LOGARITHMS

- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173

LOGIC CIRCUITS

- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
- Relay binary circuit Patent
[NASA-CASE-XMF-00421] c 09 N70-34502
- Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
- Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
- Data processor having multiple sections activated at different times by selective power coupling to the sections Patent
[NASA-CASE-XGS-04767] c 08 N71-12494
- Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
- AC logic flip-flop circuits Patent
[NASA-CASE-XGS-00823] c 10 N71-15910
- Logic AND gate for fluid circuits Patent
[NASA-CASE-XLA-07391] c 12 N71-17579
- Ripple add and ripple subtract binary counters Patent
[NASA-CASE-XGS-04766] c 08 N71-18602
- Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
- Stepping motor control circuit Patent
[NASA-CASE-GSC-10366-1] c 10 N71-18772
- Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

- A synchronous binary array divider
[NASA-CASE-ERC-10180-1] c 60 N74-20836
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Adaptive control system for line-commutated inverters
[NASA-CASE-MFS-25209-1] c 33 N83-35227
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- Nanosequence digital logic controller
[NASA-CASE-NPO-16116-2] c 60 N88-29310
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976
- LONGERONS**
- Latching mechanism for deployable/re-stowable columns useful in satellite construction
[NASA-CASE-LAR-13169-1] c 37 N86-25791
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- LONGITUDINAL CONTROL**
- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
- LONGITUDINAL STABILITY**
- Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277
- LOOK ANGLES (ELECTRONICS)**
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- LOOP ANTENNAS**
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- LOOPS**
- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- Means for accommodating large overstrain in lead wires --- by storing extra length of wire in stretchable loop
[NASA-CASE-LAR-10168-1] c 33 N74-22865
- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- LOUVERS**
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- LOW ASPECT RATIO**
- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Landing arrangement for aerial vehicle Patent
[NASA-CASE-XLA-00806] c 02 N70-34858
- LOW COST**
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Large TV display system
[NASA-CASE-NPO-16932-1-CU] c 33 N87-15413
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
- LOW CURRENTS**
- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
- LOW DENSITY MATERIALS**
- Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993
- Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
- Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436
- Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Elevated temperature aluminum alloys
[NASA-CASE-LAR-13632-1] c 26 N87-29650
- LOW FREQUENCIES**
- Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
- Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713
- LOW GRAVITY MANUFACTURING**
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Gas levitator having fixed levitation node for containerless processing
[NASA-CASE-MFS-25509-1] c 35 N83-24828
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Apparatus ad method for quiescent containerless processing of high temperature metals and alloys in low gravity
[NASA-CASE-MFS-28087-1] c 35 N87-23944
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- LOW MOLECULAR WEIGHTS**
- Process for preparation of high-molecular-weight polyaryloxyisilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
- LOW NOISE**
- Low phase noise digital frequency divider
[NASA-CASE-NPO-11569] c 10 N73-26229
- Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
- Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
- Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- LOW PASS FILTERS**
- Filtering technique based on high-frequency plant modeling for high-gain control
[NASA-CASE-LAR-12215-1] c 08 N79-23097
- Smoothing filter for digital to analog conversion
[NASA-CASE-FRC-11025-1] c 33 N82-24417
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- LOW PRESSURE**
- Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- LOW SPEED**
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
- LOW TEMPERATURE**
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
- LOW TEMPERATURE ENVIRONMENTS**
- Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986
- LOW TEMPERATURE TESTS**
- Low temperature flexure fatigue cryostat Patent
[NASA-CASE-XMF-02964] c 14 N71-17659
- Horizontal cryostat for fatigue testing Patent
[NASA-CASE-XMF-10968] c 14 N71-24234
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- LOW THRUST**
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- LOW VACUUM**
- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- LOW VOLTAGE**
- High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
- Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720
- Failure sensing and protection circuit for converter networks Patent
[NASA-CASE-GSC-10114-1] c 10 N71-27366
- LOWER BODY NEGATIVE PRESSURE**
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803
- LUBRICANTS**
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046
- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- Journal bearings --- for lubricant films
[NASA-CASE-LEW-11076-1] c 37 N74-21061
- Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
- LUBRICATING OILS**
- Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
- LUBRICATION**
- Production of hollow components for rolling element bearings by diffusion welding
[NASA-CASE-LEW-11026-1] c 15 N73-33383
- Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
- Fluid journal bearings
[NASA-CASE-LEW-11076-4] c 37 N76-15461
- LUBRICATION SYSTEMS**
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Fluid lubricant system Patent
[NASA-CASE-XNP-03972] c 15 N71-23048
- Journal Bearings
[NASA-CASE-LEW-11076-2] c 37 N74-32921
- Oil cooling system for a gas turbine engine
[NASA-CASE-LEW-12321-1] c 37 N78-10467
- LUGS**
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- LUMINAIRES**
- Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
- Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521
- Lamp modulator
[NASA-CASE-KSC-10565] c 09 N72-25250
- Driving lamps by induction
[NASA-CASE-MFS-21214-1] c 09 N73-30181
- Uniform variable light source
[NASA-CASE-NPO-11429-1] c 74 N77-21941
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- LUMINANCE**
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- LUMINOSITY**
- Measurement of time differences between luminous events Patent
[NASA-CASE-XLA-01987] c 23 N71-23976
- LUMINOUS INTENSITY**
- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- Radiant energy intensity measurement system Patent
[NASA-CASE-XNP-06510] c 14 N71-23797

LUMPING

- Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
[NASA-CASE-XNP-04167-3] c 36 N77-19416
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

LUMPING

- Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

LUNAR BASES

- Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

LUNAR COMMUNICATION

- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR COMPOSITION

- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

LUNAR EXPLORATION

- Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
- Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765
- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585
- Emergency lunar communications system
[NASA-CASE-MFS-21042] c 07 N72-25171

LUNAR GRAVITATION

- Subgravity simulator Patent
[NASA-CASE-XMS-04798] c 11 N71-21474

LUNAR GRAVITY SIMULATOR

- Impact simulator Patent
[NASA-CASE-XLA-00493] c 11 N70-34786

LUNAR LANDING

- Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

LUNAR LOGISTICS

- Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

LUNAR ROCKS

- Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034

LUNAR SOIL

- Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
- Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011

LUNAR SURFACE VEHICLES

- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091

LUNGS

- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

M

MACH NUMBER

- Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

MACHINE TOOLS

- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Aligning and positioning device Patent
[NASA-CASE-XMS-04178] c 15 N71-22798
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673

- Caterpillar micro positioner
[NASA-CASE-GSC-10780-1] c 14 N72-16283
- Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
- Precision alignment apparatus for cutting a workpiece
[NASA-CASE-LAR-11658-1] c 37 N77-14478
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- Crystal cleaving machine
[NASA-CASE-GSC-12584-1] c 37 N82-32730
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360

MACHINERY

- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334
- Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917

MACHINING

- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Lathe tool bit and holder for machining fiberglass materials
[NASA-CASE-XLA-10470] c 15 N72-21489
- Drilled ball bearing with a one piece anti-tipping cage assembly
[NASA-CASE-LEW-11925-1] c 37 N75-31446

MAGNESIUM

- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM ALLOYS

- Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
- Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446

MAGNESIUM OXIDES

- Method for determining presence of OH in magnesium oxide
[NASA-CASE-NPO-10774] c 06 N72-17095
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

MAGNET COILS

- Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
- Circuit breaker utilizing magnetic latching relays Patent
[NASA-CASE-MSC-11277] c 09 N71-29008

MAGNETIC AMPLIFIERS

- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338

MAGNETIC BEARINGS

- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Linear magnetic bearings
[NASA-CASE-GSC-12582-2] c 37 N85-20337
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC CHARGE DENSITY

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC CIRCUITS

- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043

MAGNETIC COILS

- Time-division multiplexer Patent
[NASA-CASE-XNP-00431] c 09 N70-38998
- Linear magnetic brake with two windings Patent
[NASA-CASE-XLE-05079] c 15 N71-17652
- Safe-arm initiator Patent
[NASA-CASE-LAR-10372] c 09 N71-18599
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

MAGNETIC CONTROL

- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

- Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
- Magnetic bearing system
[NASA-CASE-GSC-11978-1] c 37 N77-17464
- Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357

MAGNETIC CORES

- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
- Magnetic counter Patent
[NASA-CASE-XNP-08836] c 09 N71-12515
- Pulse-type magnetic core memory element circuit with blocking oscillator feedback Patent
[NASA-CASE-XGS-03303] c 08 N71-18595
- Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
- Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Unsaturating saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928

MAGNETIC DIPOLES

- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725

MAGNETIC DISKS

- Disk pack cleaning table Patent Application
[NASA-CASE-LAR-10590-1] c 15 N70-26819

MAGNETIC FIELD CONFIGURATIONS

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905

MAGNETIC FIELDS

- Electric-arc heater Patent
[NASA-CASE-XLA-00330] c 33 N70-34540
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Electrostatic ion engine having a permanent magnetic circuit Patent
[NASA-CASE-XLE-01124] c 28 N71-14043
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
[NASA-CASE-XGS-07514] c 23 N71-16099
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187
- Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619
- Ion thruster
[NASA-CASE-LEW-10770-1] c 28 N72-22770
- Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
- Determining distance to lightning strokes from a single station
[NASA-CASE-KSC-10698] c 07 N73-20175
- Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
- Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195

- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Compact, high intensity arc lamp with internal magnetic field producing means
[NASA-CASE-NPO-11510-1] c 33 N77-21315
- Magnetic heat pumping
[NASA-CASE-LEW-12508-1] c 34 N78-17335
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103
- Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
- Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973
- Magnetic attachment mechanism
[NASA-CASE-MS-C-21095-1] c 37 N89-12866
- MAGNETIC FILMS**
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- MAGNETIC FLUX**
- Excitation and detection circuitry for a flux responsive magnetic head
[NASA-CASE-XNP-04183] c 09 N69-24329
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Hybrid lubrication system and bearing Patent
[NASA-CASE-XNP-01641] c 15 N71-22997
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- Magnetic bearing --- for supplying magnetic fluxes
[NASA-CASE-GSC-11079-1] c 37 N75-18574
- Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply
[NASA-CASE-GSC-12518-1] c 33 N82-24421
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
- MAGNETIC FORMING**
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- MAGNETIC INDUCTION**
- Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
- Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- Magnetic drive coupling
[NASA-CASE-MS-C-21171-1] c 37 N88-23973
- MAGNETIC LENSES**
- Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
- MAGNETIC MATERIALS**
- Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- MAGNETIC MEASUREMENT**
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- MAGNETIC PERMEABILITY**
- Linear motion valve
[NASA-CASE-MS-C-20148-1] c 37 N85-29284
- MAGNETIC POLES**
- Magneto-hydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
- MAGNETIC PUMPING**
- Continuous magnetic flux pump
[NASA-CASE-XNP-01187] c 15 N73-28516
- Magnetic-flux pump
[NASA-CASE-XNP-01188] c 15 N73-32361
- Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- MAGNETIC RECORDING**
- Incremental tape recorder and data rate converter Patent
[NASA-CASE-XNP-02778] c 08 N71-22710
- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246
- Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- MAGNETIC SIGNALS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- MAGNETIC STORAGE**
- Binary magnetic memory device Patent
[NASA-CASE-XGS-00174] c 08 N70-34743
- Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
- Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
- Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-1] c 28 N78-24365
- MAGNETIC SUSPENSION**
- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
- Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- Single element magnetic suspension actuator
[NASA-CASE-LAR-13981-1] c 37 N90-15442
- MAGNETIC SWITCHING**
- Magnetic power switch Patent
[NASA-CASE-NPO-10242] c 09 N71-24803
- Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000
- Magnetically switched power supply system for lasers
[NASA-CASE-NPO-16402-2] c 33 N88-24862
- MAGNETIC TAPE TRANSPORTS**
- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
- MAGNETIC TAPES**
- Endless tape cartridge Patent
[NASA-CASE-XGS-00769] c 14 N70-41647
- Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
- Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
- System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
- Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
- Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MS-C-14219-1] c 32 N74-27612
- Automatic character skew and spacing checking network --- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353
- Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372
- MAGNETIC TRANSDUCERS**
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- MAGNETIZATION**
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- MAGNETO-OPTICS**
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- MAGNETOACOUSTIC WAVES**
- Method and apparatus for non-destructive testing of temper embrittlement in steels
[NASA-CASE-LAR-13817-1] c 26 N88-29012
- MAGNETOHYDRODYNAMIC FLOW**
- Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
- Hybrid plume plasma rocket
[NASA-CASE-MS-C-20476-2] c 20 N89-25279
- MAGNETOHYDRODYNAMIC GENERATORS**
- Magneto-hydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Slug flow magneto-hydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Two-fluid magneto-hydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
- Crossed-field MHD plasma generator/accelerator Patent
[NASA-CASE-XLA-03374] c 25 N71-15562
- Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
- MAGNETOMETERS**
- Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
- Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
- Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
[NASA-CASE-XGS-01881] c 09 N70-40123
- Wide range linear fluxgate magnetometer Patent
[NASA-CASE-XGS-01587] c 14 N71-15962
- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
- Hall effect magnetometer
[NASA-CASE-LEW-11632-2] c 35 N75-13213
- Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] c 35 N84-12444
- MAGNETRON SPUTTERING**
- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- MAGNETRONS**
- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- MAGNETS**
- Magnetic electrical connectors for biomedical percutaneous implants
[NASA-CASE-KSC-11030-1] c 52 N77-25772
- Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
- Linear magnetic bearing
[NASA-CASE-GSC-12517-1] c 37 N83-32067
- Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

MAGNIFICATION

- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- MAGNIFICATION**
Image magnification adapter for cameras Patent
[NASA-CASE-XMF-03844-1] c 14 N71-26474
Magnifying scratch gage force transducer
[NASA-CASE-LAR-10496-1] c 14 N72-22437
Magnifying image intensifier
[NASA-CASE-GSC-12010-1] c 74 N78-18905
Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- MAGNITUDE**
Balance torquemeter Patent
[NASA-CASE-XGS-01013] c 14 N71-23725
- MAINTENANCE**
Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Method of repairing discontinuity in fiberglass structures
[NASA-CASE-LAR-10416-1] c 24 N74-30001
System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
Computer circuit card puller
[NASA-CASE-FRC-11042-1] c 60 N82-24839
Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771
- MALEATES**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- MALFUNCTIONS**
Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
- MAMMALS**
Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- MANAGEMENT METHODS**
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410
- MANDRELS**
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Rotating mandrel for assembly of inflatable devices
[NASA-CASE-XLA-04143] c 15 N71-17687
Method of making a solid propellant rocket motor
[NASA-CASE-XLA-04126] c 28 N71-26779
- MANEUVERABILITY**
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- MANGANESE**
Manganese bismuth films with narrow transfer characteristics for Curie-point switching
[NASA-CASE-NPO-11336-1] c 76 N79-16678
- MANIFOLDS**
Injector for bipropellant rocket engines Patent
[NASA-CASE-XMF-00148] c 28 N70-38710
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Collimated beam manifold with the number of output beams variable at a given output angle
[NASA-CASE-MFS-25312-1] c 74 N83-17305
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130
- MANIPULATORS**
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616

- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041
Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] c 37 N86-19603
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
- MANNED ORBITAL LABORATORIES**
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776
- MANNED SPACE FLIGHT**
Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
- MANNED SPACECRAFT**
Space capsule Patent
[NASA-CASE-XLA-00149] c 31 N70-37938
Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Artificial gravity spin deployment system Patent
[NASA-CASE-XNP-02595] c 31 N71-21881
Specialized halogen generator for purification of water Patent
[NASA-CASE-XLA-08913] c 14 N71-28933
Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
Space vehicle with artificial gravity and earth-like environment
[NASA-CASE-LEW-11101-1] c 31 N73-32750
Hatch cover
[NASA-CASE-MSC-21356-1] c 18 N90-19278

MANOMETERS

- Magnetically centered liquid column float Patent
[NASA-CASE-XAC-00030] c 14 N70-34820
Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394

MANUAL CONTROL

- Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740
Manually actuated heat pump
[NASA-CASE-NPO-10677] c 05 N72-11084
Numerical computer peripheral interactive device with manual controls
[NASA-CASE-NPO-11497] c 08 N73-25206
Solid state controller three axes controller
[NASA-CASE-MSC-12394-1] c 08 N74-10942
G-load measuring and indicator apparatus
[NASA-CASE-ARC-10806-1] c 35 N75-29381
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

MANUFACTURING

- A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966
Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
Fluid containers and resealable septum therefor
[NASA-CASE-NPO-10123] c 15 N71-24835
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Method of making shielded flat cable Patent
[NASA-CASE-MFS-13687] c 09 N71-28691
Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Inorganic spark chamber frame and method of making the same
[NASA-CASE-GSC-12354-1] c 35 N82-24471
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- MAPPING**
Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

MAPS

- Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015
Optical process for producing classification maps from multispectral data
[NASA-CASE-MS-C-14472-1] c 43 N77-10584

MASERS

- Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512
Multistation refrigeration system
[NASA-CASE-NPO-13839-1] c 31 N78-25256
External bulb variable volume maser
[NASA-CASE-GSC-12334-1] c 36 N79-14362
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

MASKING

- Masking device Patent
[NASA-CASE-XNP-02092] c 15 N70-42033
High resolution developing of photosensitive resists Patent
[NASA-CASE-XGS-04993] c 14 N71-17574
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427

MASKS

- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160

MASS

- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MS-C-14653-1] c 35 N77-19385

MASS BALANCE

- Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755

MASS DISTRIBUTION

- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

MASS FLOW

- Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Nuclear mass flowmeter
[NASA-CASE-MFS-20485] c 14 N72-11365
Apparatus and method for generating large mass flow of high temperature air at hypersonic speeds
[NASA-CASE-LAR-10578-1] c 12 N73-25262

MASS SPECTROMETERS

- Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent
[NASA-CASE-XNP-01056] c 14 N71-23041
Ion microprobe mass spectrometer for analyzing fluid materials Patent
[NASA-CASE-ERC-10014] c 14 N71-28863
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
Quadrupole mass filter with means to generate a noise spectrum exclusive of the resonant frequency of the desired ions to deflect stable ions
[NASA-CASE-XNP-04231] c 14 N73-32325
Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857

- Mass spectrometer with magnetic pole pieces providing the magnetic fields for both the magnetic sector and an ion-type vacuum pump
[NASA-CASE-NPO-13663-1] c 35 N77-14406
Method for fabricating a mass spectrometer inlet leak
[NASA-CASE-GSC-12077-1] c 35 N77-24455
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] c 35 N84-28016
Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794

MASS SPECTROSCOPY

- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
Fluid sampling device
[NASA-CASE-GSC-12143-1] c 35 N77-32456
Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184

MASSIVELY PARALLEL PROCESSORS

- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378

MATERIAL ABSORPTION

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

MATERIALS

- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MS-C-25707-1] c 35 N85-29214

MATERIALS HANDLING

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Air bearing Patent
[NASA-CASE-XMF-01887] c 15 N71-10617
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Method and apparatus for cryogenic wire stripping Patent
[NASA-CASE-MFS-10340] c 15 N71-17628
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Mechanically extendible telescoping boom
[NASA-CASE-NPO-11118] c 03 N72-25021
Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

MATERIALS RECOVERY

- Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

MATERIALS SCIENCE

- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486

MATERIALS TESTS

- Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476

MATHEMATICAL LOGIC

- Logical function generator
[NASA-CASE-XLA-05099] c 09 N73-13209

MATHEMATICAL MODELS

- Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MS-C-21465-1] c 61 N90-16410

MATRICES (CIRCUITS)

- Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Magnetic matrix memory system Patent
[NASA-CASE-XMF-05835] c 08 N71-12504
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Serial digital decoder Patent
[NASA-CASE-NPO-10150] c 08 N71-24650
Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041

MATRIX MATERIALS

- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

MCLEOD GAGES

- Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093
Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450

MEASURING INSTRUMENTS

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785
Angular measurement system Patent
[NASA-CASE-XMF-00447] c 14 N70-33179
Two-plane balance Patent
[NASA-CASE-XAC-00073] c 14 N70-34813
Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992
Electron beam instrument for measuring electric fields Patent
[NASA-CASE-XMF-10289] c 14 N71-23699
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Internal flare angle gauge Patent
[NASA-CASE-XMF-04415] c 14 N71-24693
RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Resonant ultrasonic gauging apparatus
[NASA-CASE-MS-C-11847-1] c 14 N72-11363
Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Capacitive tank gaging apparatus being independent of liquid distribution
[NASA-CASE-MFS-21629] c 14 N72-22442

- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Altitude measuring system
[NASA-CASE-ERC-10412-1] c 09 N73-12211
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421
- Material fatigue testing system
[NASA-CASE-MFS-20673] c 14 N73-20476
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
- RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
- Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Electric field measuring and display system --- for cloud formations
[NASA-CASE-KSC-10731-1] c 33 N74-27862
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11302-1] c 38 N77-17495
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Direct reading inductance meter
[NASA-CASE-NPO-13792-1] c 35 N77-32455
- Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720
- Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Lightning current detector
[NASA-CASE-KSC-11057-1] c 33 N79-14305
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357
- Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Lightning discharge identification system
[NASA-CASE-KSC-11099-1] c 47 N82-24779
- Flow resistivity instrument
[NASA-CASE-LAR-13053-1] c 43 N83-29783
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- Electrostatic discharge test apparatus
[NASA-CASE-MSC-21094-1] c 35 N88-24941
- Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
- Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
- Universal precision sine bar attachment
[NASA-CASE-MFS-28253-1] c 37 N89-28831
- Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
- Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
- Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117
- MECHANICAL DEVICES**
- Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439
- Latching mechanism Patent
[NASA-CASE-XMS-03745] c 15 N71-21076
- Stirring apparatus for plural test tubes Patent
[NASA-CASE-XAC-06956] c 15 N71-21177
- Random function tracer Patent
[NASA-CASE-XLA-01401] c 15 N71-21179
- Canister closing device Patent
[NASA-CASE-XLA-01446] c 15 N71-21528
- Nonmagnetic, explosive actuated indexing device Patent
[NASA-CASE-XGS-02422] c 15 N71-21529
- Central spar and module joint Patent
[NASA-CASE-XNP-02341] c 15 N71-21531
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Alloys for bearings Patent
[NASA-CASE-XLE-05033] c 15 N71-23810
- Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
- Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599
- Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Layout tool Patent
[NASA-CASE-FRC-10005] c 15 N71-26145
- Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409
- Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
- Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
- Adjustable force probe
[NASA-CASE-MFS-20760] c 14 N72-33377
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
- Reeling system
[NASA-CASE-LAR-10129-2] c 37 N74-20063
- Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Clock setter
[NASA-CASE-LAR-11458-1] c 35 N76-16392
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Reel safety brake
[NASA-CASE-GSC-11960-1] c 37 N77-14479
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483
- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673
- Mechanical end point system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Extended moment arm anti-spin device
[NASA-CASE-LAR-12979-1] c 05 N85-21147
- Connection system --- insuring against loss of a tool component without using multiple tethers
[NASA-CASE-MSC-20319-1] c 37 N85-21649
- Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333
- Apparatus for mounting a field emission cathode
[NASA-CASE-LEW-14108-1] c 33 N87-28832
- MECHANICAL DRIVES**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- Precision stepping drive Patent
[NASA-CASE-MFS-14772] c 15 N71-17692
- Incremental motion drive system Patent
[NASA-CASE-XNP-08897] c 15 N71-17694
- Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
- Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136
- Energy absorption device Patent
[NASA-CASE-XNP-01848] c 15 N71-28959
- Boring bar drive mechanism Patent
[NASA-CASE-XLA-03661] c 15 N71-33518
- Rotary actuator
[NASA-CASE-NPO-10244] c 15 N72-26371
- Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
- Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060

- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Concentric differential gearing arrangement
[NASA-CASE-ARC-10462-1] c 37 N74-27901
- Geneva mechanism --- including star wheel and driver
[NASA-CASE-NPO-13281-1] c 37 N75-13266
- Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
- Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
- Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
- Wobble gear drive mechanism --- for aerospace environments
[NASA-CASE-WOO-00625] c 37 N78-17385
- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550
- Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Belt for transmitting power from a cogged driving member to a cogged driven member
[NASA-CASE-GSC-12289-1] c 37 N80-32717
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
- Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- MECHANICAL ENGINEERING**
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
- MECHANICAL MEASUREMENT**
- Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
- Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
- Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
- Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- MECHANICAL PROPERTIES**
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- MECHANICS (PHYSICS)**
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MSC-12111-1] c 02 N71-11039
- MECHANIZATION**
- Machine for use in monitoring fatigue life for a plurality of elastomeric specimens
[NASA-CASE-NPO-13731-1] c 39 N78-10493
- MEDICAL ELECTRONICS**
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- MEDICAL EQUIPMENT**
- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189
- Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202
- Laser machining apparatus Patent
[NASA-CASE-HQN-10541-2] c 15 N71-27135
- Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
- Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Corneal seal device
[NASA-CASE-LEW-12258-1] c 52 N77-28716
- Snap-in compressible biomedical electrode
[NASA-CASE-MSC-14623-1] c 52 N77-28717
- Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662
- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862
- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388
- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- MELTING**
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- MELTING POINTS**
- Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
- Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314
- MELTS (CRYSTAL GROWTH)**
- Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
- Controlled in situ etch-back
[NASA-CASE-NPO-15625-1] c 76 N83-20789
- Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
- Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286
- MEMBRANE STRUCTURES**
- Liquid junction and method of fabricating the same Patent Application
[NASA-CASE-NPO-10682] c 15 N70-34699
- Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Flexible composite membrane Patent
[NASA-CASE-XNP-08837] c 18 N71-16210
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131
- Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
- Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
- MEMBRANES**
- Apparatus for measuring swelling characteristics of membranes
[NASA-CASE-XGS-03865] c 14 N69-21363
- Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
- Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567
- Dual membrane hollow fiber fuel cell and method of operating same
[NASA-CASE-NPO-13732-1] c 44 N79-10513
- Microelectrophoretic apparatus and process
[NASA-CASE-ARC-11121-1] c 25 N79-14169
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
- Air removal device --- life support systems
[NASA-CASE-XLA-08914-2] c 25 N82-21269
- Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
- Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
- Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- MEMORY**
- Method for making conductors for ferrite memory arrays --- from pre-formed metal conductors
[NASA-CASE-LAR-10994-1] c 24 N75-13032

- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- MEMORY (COMPUTERS)**
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992
- Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
- Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803
- A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
- Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- MERCURY (METAL)**
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Feed system for an ion thruster
[NASA-CASE-NPO-10737] c 28 N72-11709
- MERCURY VAPOR**
- Mercury capillary interrupter Patent
[NASA-CASE-XNP-02251] c 12 N71-20896
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- MESSAGE PROCESSING**
- Method for Veterbi decoding of large constraint length convolutional codes
[NASA-CASE-NPO-17310-1-CU] c 17 N88-28946
- METABOLIC WASTES**
- Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721
- Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
- METABOLISM**
- Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
- Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- Metabolic rate meter and method
[NASA-CASE-MSC-12239-1] c 52 N79-21750
- METAL BONDING**
- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648
- Apparatus for the determination of the existence or non-existence of a bonding between two members Patent
[NASA-CASE-MFS-13686] c 15 N71-18132
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
- Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
- Ultrasonically bonded valve assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185
- Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289
- Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
- Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655

- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-133590-1] c 27 N83-31855
- Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] c 37 N84-33807
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Composite piston
[NASA-CASE-LAR-13435-1] c 37 N88-23981
- METAL COATINGS**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
- Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
- Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
- Wide temperature range electronic device with lead attachment
[NASA-CASE-ERC-10224-2] c 09 N73-27150
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL COMPOUNDS**
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- METAL CUTTING**
- Metal shearing energy absorber
[NASA-CASE-HQN-10638-1] c 15 N73-30460
- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
- Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
- METAL FATIGUE**
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Directional solidification of superalloys
[NASA-CASE-MFS-28314-1] c 26 N90-15227
- METAL FIBERS**
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
- METAL FILMS**
- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-10337] c 15 N71-24046

- Magnetic recording head and method of making same Patent
[NASA-CASE-GSC-10097-1] c 08 N71-27210
- Light regulator
[NASA-CASE-LAR-10836-1] c 26 N72-27784
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
- Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] c 27 N84-33589
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- METAL FINISHING**
- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- METAL FOILS**
- Folding apparatus Patent
[NASA-CASE-XLA-00137] c 15 N70-33180
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- METAL FUELS**
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL HALIDES**
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Direct current ballast circuit for metal halide lamp
[NASA-CASE-MSC-18407-1] c 33 N82-24427
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL HYDRIDES**
- Method of forming metal hydride films
[NASA-CASE-LEW-12083-1] c 37 N78-13436
- METAL IONS**
- Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
- METAL JOINTS**
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126
- METAL MATRIX COMPOSITES**
- Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984
- Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
- Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
[NASA-CASE-LEW-12441-1] c 34 N79-13289

- Preparation of monotectic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
- Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
- Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
- Fuselage structure using advanced technology fiber reinforced composites
[NASA-CASE-LAR-11688-1] c 24 N82-26384
- Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] c 24 N84-11214
- Arc spray fabrication of metal matrix composite monolayer
[NASA-CASE-LEW-13828-1] c 24 N85-30027
- Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
[NASA-CASE-LAR-13562-1] c 24 N87-18613
- METAL OXIDE SEMICONDUCTORS**
- Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Method of making V-MOS field effect transistors utilizing a two-step anisotropic etching and ion implantation
[NASA-CASE-GSC-12515-1] c 33 N81-26360
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Integrated photo-responsive metal oxide semiconductor circuit
[NASA-CASE-GSC-12782-1] c 33 N88-14271
- METAL OXIDES**
- Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
- Photocatalytic of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094
- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Method for obtaining oxygen from lunar or similar soil
[NASA-CASE-MSC-12408-1] c 46 N74-13011
- Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748
- Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
- Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- METAL PARTICLES**
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
- Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- METAL PLATES**
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528
- Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132
- METAL POWDER**
- Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
- Preparation of high purity copper fluoride
[NASA-CASE-LEW-10794-1] c 06 N72-17093
- Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- METAL SHEETS**
- Light shield and infrared reflector for fatigue testing Patent
[NASA-CASE-XLA-01782] c 14 N71-26136
- Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301
- Method of making an explosively welded scarf joint
[NASA-CASE-LAR-11211-1] c 37 N75-12326
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] c 18 N84-33450
- METAL SHELLS**
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
- METAL SPINNING**
- Spin forming tubular elbows Patent
[NASA-CASE-MSC-01083] c 15 N71-22723
- METAL SPRAYING**
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METAL STRIPS**
- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
- Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
- Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
- High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300
- Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
- METAL SURFACES**
- Condenser - Separator
[NASA-CASE-XLA-08645] c 15 N69-21465
- Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- Process for applying black coating to metals Patent
[NASA-CASE-XLA-06199] c 15 N71-24875
- Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
- Method of forming ceramic to metal seal Patent
[NASA-CASE-XNP-01263-2] c 15 N71-26312
- Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
- Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
- Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651
- METAL VAPOR LASERS**
- High power metallic halide laser --- amplifying a copper chloride laser
[NASA-CASE-NPO-14782-1] c 36 N82-28616
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417
- METAL VAPORS**
- Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441
- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
- METAL WORKING**
- Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114] c 15 N71-17650
- Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
- Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
- Extrusion die for refractory metals Patent
[NASA-CASE-XLE-06773] c 15 N71-23817
- Magnetomotive metal working device Patent
[NASA-CASE-XMF-03793] c 15 N71-24833
- Method and apparatus for precision sizing and joining of large diameter tubes Patent
[NASA-CASE-XMF-05114-3] c 15 N71-24865
- Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- Apparatus for forming dish ion thruster grids
[NASA-CASE-LEW-11694-2] c 37 N76-14461
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- METAL-METAL BONDING**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
- Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
- METALLIC GLASSES**
- Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- METALLIZING**
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
- Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550
- METALLOGRAPHY**
- Method for etching copper Patent
[NASA-CASE-XGS-06306] c 17 N71-16044
- METALLOSILOXANE POLYMER**
- Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- METALLURGY**
- Induction furnace with perforated tungsten foil shielding Patent
[NASA-CASE-XLE-04026] c 14 N71-23267
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- METALS**
- Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811

- Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Production of pure metals
[NASA-CASE-LEW-10906-1] c 25 N74-30502
- Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
- Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151

METASTABLE STATE

- Stabilization of He2(a 3 Sigma u+) molecules in liquid helium by optical pumping for vacuum UV laser
[NASA-CASE-NPO-13993-1] c 72 N79-13826
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374

METEORITE COLLISIONS

- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130

METEORITES

- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018

METEORITIC DAMAGE

- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797

METEOROID HAZARDS

- Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

METEOROID PROTECTION

- Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

METEOROIDS

- Apparatus for photographing meteors
[NASA-CASE-LAR-10226-1] c 14 N73-19419
- Meteoroid capture cell construction
[NASA-CASE-MSC-12423-1] c 91 N76-30131

METEOROLOGICAL BALLOONS

- Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

METHANE

- Gas lubricant compositions Patent
[NASA-CASE-XLE-00353] c 18 N70-39897
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631

METHYL ALCOHOL

- Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255

METHYL COMPOUNDS

- Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

METHYLENE

- Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840

MICHELSON INTERFEROMETERS

- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391

MICROANALYSIS

- Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913

MICROBALANCES

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358

MICROBALLOONS

- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

MICROBIOLOGY

- Variable angle tube holder
[NASA-CASE-LAR-10507-1] c 11 N72-25284
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic inoculating apparatus --- includes movable carriage, drive motor, and swabbing motor
[NASA-CASE-LAR-11074-1] c 51 N75-13502
- Automatic microbial transfer device
[NASA-CASE-LAR-11354-1] c 35 N75-27330
- Application of luciferase assay for ATP to antimicrobial drug susceptibility
[NASA-CASE-GSC-12039-1] c 51 N77-22794
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698

MICROCHANNELS

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

MICROCRACKS

- System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996

MICROELECTRONICS

- Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Microelectronic module package Patent
[NASA-CASE-XMS-02182] c 10 N71-28783
- Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

MICROFIBERS

- Small conductive particle sensor --- microfiber size determination
[NASA-CASE-LAR-12552-1] c 35 N82-11431

MICROFILMS

- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

MICROGRAVITY APPLICATIONS

- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

MICROINSTRUMENTATION

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMETEORITES

- Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433

MICROMETEORITIDS

- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996
- Detector panels-micrometeoroid impact Patent
[NASA-CASE-XLA-05906] c 31 N71-16221
- Rotary bead dropper and selector for testing micrometeorite detectors Patent
[NASA-CASE-XGS-03304] c 09 N71-22988
- Micrometeoroid penetration measuring device Patent
[NASA-CASE-XLA-00941] c 14 N71-23240
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
- Micrometeoroid analyzer
[NASA-CASE-ARC-10443-1] c 14 N73-20477
- Meteoroid detector
[NASA-CASE-LAR-10483-1] c 14 N73-32327
- Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062
- Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

MICROMETERS

- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386

MICROMINIATURIZATION

- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

MICROORGANISMS

- Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
- Apparatus and process for microbial detection and enumeration
[NASA-CASE-LAR-12709-1] c 35 N82-28604
- Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227

MICROPARTICLES

- Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561

MICROPHONES

- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
- Carbon granule probe microphone for leak detection --- recovery boilers
[NASA-CASE-NPO-16027-1] c 35 N85-21597

MICROPOROSITY

- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887

MICROPROCESSORS

- Microcomputerized electric field meter diagnostic and calibration system
[NASA-CASE-KSC-11035-1] c 35 N78-28411
- Automatic multi-banking of memory for microprocessors
[NASA-CASE-NPO-15295-1] c 60 N85-21992

MICROSCOPES

- Absolute focus lock for microscopes
[NASA-CASE-LAR-10184] c 14 N72-22445
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361

- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- MICROSTRIP ANTENNAS**
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- MICROSTRIP TRANSMISSION LINES**
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- MICROSTRUCTURE**
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
Preparation of monolithic alloys having a controlled microstructure by directional solidification under dopant-induced interface breakdown
[NASA-CASE-MFS-23816-1] c 26 N80-23419
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
High temperature electric arc furnace
[NASA-CASE-MFS-28281-1] c 09 N88-28938
- MICROTHRUST**
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- MICROWAVE AMPLIFIERS**
Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- MICROWAVE ANTENNAS**
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Thin conformal antenna array for microwave power conversions
[NASA-CASE-NPO-13886-1] c 32 N78-24391
Cavity-backed, micro-strip dipole antenna array
[NASA-CASE-MSC-18606-1] c 32 N82-11336
- MICROWAVE CIRCUITS**
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
- MICROWAVE COUPLING**
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- MICROWAVE EQUIPMENT**
Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
Dual frequency microwave reflex feed
[NASA-CASE-NPO-13091-1] c 09 N73-12214
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Refrigerated coaxial coupling --- for microwave equipment
[NASA-CASE-NPO-13504-1] c 33 N75-30430
Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- MICROWAVE FILTERS**
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
- MICROWAVE FREQUENCIES**
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- MICROWAVE OSCILLATORS**
Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
Electron beam controller --- using magnetic field to refocus spent electron beam in microwave oscillator tube
[NASA-CASE-LEW-11617-1] c 33 N74-10195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
- MICROWAVE RADIOMETERS**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
Electromagnetic power absorber
[NASA-CASE-NPO-13830-1] c 32 N80-14281
Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- MICROWAVE REFLECTOMETERS**
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- MICROWAVE RESONANCE**
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- MICROWAVE SCATTERING**
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- MICROWAVE SENSORS**
Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360
- MICROWAVE SWITCHING**
Gyator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- MICROWAVE TRANSMISSION**
Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085
- MICROWAVE TUBES**
Electrostatic collector for charged particles
[NASA-CASE-LEW-11192-1] c 09 N73-13208
- MICROWAVES**
Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598
Method and apparatus for optical modulating a light signal Patent
[NASA-CASE-GSC-10216-1] c 23 N71-26722
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Wide power range microwave feedback controller
[NASA-CASE-GSC-12146-1] c 33 N78-32340
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-11935-1] c 33 N87-21234
- MIDAIR COLLISIONS**
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
- MILLIMETER WAVES**
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- MILLING (MACHINING)**
Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319
Method for milling and drilling glass
[NASA-CASE-GSC-12636-1] c 31 N83-27058
- MILLING MACHINES**
Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Portable milling tool Patent
[NASA-CASE-XMF-03511] c 15 N71-22799
Grinding arrangement for ball nose milling cutters
[NASA-CASE-LAR-10450-1] c 37 N74-27905
- MINERAL DEPOSITS**
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
- MINERAL METABOLISM**
Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737
- MINES (EXCAVATIONS)**
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963
- MINIATURE ELECTRONIC EQUIPMENT**
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295
- MINIATURIZATION**
Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
Miniature cyclotron resonance ion source using small permanent magnet
[NASA-CASE-NPO-14324-1] c 72 N80-27163
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288
Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N88-23936
- MINING**
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Underground mineral extraction
[NASA-CASE-NPO-14140-1] c 43 N81-26509
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- MINORITY CARRIERS**
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- MIRRORS**
Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461

- Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
- Method and apparatus for stabilizing a gaseous optical maser Patent
[NASA-CASE-XGS-03644] c 16 N71-18614
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Optical range finder having nonoverlapping complete images
[NASA-CASE-MSC-12105-1] c 14 N72-21409
- Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Interferometer mirror tilt correcting system
[NASA-CASE-NPO-13687-1] c 35 N78-18391
- Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
- Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
- Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843
- MIS (SEMICONDUCTORS)**
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841
- MISSILE CONTROL**
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
- MISSILE LAUNCHERS**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353
- Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
- Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- MISSILE STRUCTURES**
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231
- MISSILES**
Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
- MITOSIS**
Process for control of cell division
[NASA-CASE-LAR-10773-3] c 51 N77-25769
- MIXERS**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1CU] c 35 N86-26598
- Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298
- MIXING**
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
- Cellular thermosetting fluorodiepoxide polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- MIXING CIRCUITS**
Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- MIXTURES**
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
- Process for producing tris (s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
- MOBILE COMMUNICATION SYSTEMS**
Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1CU] c 32 N87-15390
- MOBILITY**
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251

- Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1NP] c 25 N89-28603
- MODE TRANSFORMERS**
Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
- Direct current transformer
[NASA-CASE-MFS-23659-1] c 33 N79-17133
- MODEMS**
Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- MODES (STANDING WAVES)**
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- MODULATION**
Demodulator for carrier transducers
[NASA-CASE-NUC-10107-1] c 33 N74-17930
- Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
- Air modulation apparatus
[NASA-CASE-LEW-13524-1] c 07 N84-33410
- Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] c 35 N85-34374
- MODULATORS**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
- Laser calibrator Patent
[NASA-CASE-XLA-03410] c 16 N71-25914
- Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
- Charge storage diode modulators and demodulators
[NASA-CASE-NPO-10189-1] c 33 N77-21314
- Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- MODULES**
Modular encoder
[NASA-CASE-NPO-10629] c 08 N72-18184
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
- Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411
- MODULUS OF ELASTICITY**
Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
[NASA-CASE-HQN-10274-1] c 27 N82-29451
- High modulus invert analog glass compositions containing beryllia
[NASA-CASE-HQN-10931-2] c 27 N82-29452
- Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
- High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- High resistance and raised modulus carbon fibers
[NASA-TM-76884] c 24 N85-25436
- MOISTURE**
Gas purged dry box glove Patent
[NASA-CASE-XLE-02531] c 05 N71-23080
- Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212
- MOISTURE CONTENT**
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

- MOISTURE METERS**
Method of evaluating moisture barrier properties of encapsulating materials Patent
[NASA-CASE-NPO-10051] c 18 N71-24934
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- MOISTURE RESISTANCE**
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282
- MOLDING MATERIALS**
Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
- Method of making a molded connector Patent
[NASA-CASE-XMF-03498] c 15 N71-15986
- Hydraulic casting of liquid polymers Patent
[NASA-CASE-XNP-07659] c 06 N71-22975
- Hydroforming techniques using epoxy molds Patent
[NASA-CASE-XLE-05641-1] c 15 N71-26346
- Molding process for imidazopyrrolone polymers
[NASA-CASE-LAR-10547-1] c 31 N74-13177
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- MOLDS**
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
- MOLECULAR BEAM EPITAXY**
Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
[NASA-CASE-NPO-17736-1CU] c 76 N90-17455
- MOLECULAR BEAMS**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- MOLECULAR CHAINS**
Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104
- Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
- MOLECULAR GASES**
Compact hydrogenator
[NASA-CASE-NPO-11682-1] c 35 N74-15127
- MOLECULAR PUMPS**
Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
- MOLECULAR RELAXATION**
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- MOLECULAR ROTATION**
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
- MOLECULAR SPECTRA**
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705
- MOLECULAR SPECTROSCOPY**
Dual resonant cavity absorption cell Patent
[NASA-CASE-LAR-10305] c 14 N71-26137
- MOLECULAR STRUCTURE**
Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- MOLECULAR WEIGHT**
Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

MOLECULES
Stabilization of He₂(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

MOLTEN SALT ELECTROLYTES
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643

MOLTEN SALTS
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124

MOLYBDENUM
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346

MOLYBDENUM CARBIDES
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077

MOLYBDENUM DISULFIDES
Atomic hydrogen storage method and apparatus
[NASA-CASE-LEW-12081-3] c 28 N81-14103

MOMENTS OF INERTIA
Moment of inertia test fixture Patent
[NASA-CASE-XGS-01023] c 14 N71-22992

MOMENTUM
Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990

MONATOMIC GASES
Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402

MONITORS
Leak detector Patent
[NASA-CASE-LAR-10323-1] c 12 N71-17573
Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026
Optical monitor panel Patent
[NASA-CASE-XKS-03509] c 14 N71-23175
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225
Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
Automatic lightning detection and photographic system
[NASA-CASE-KSC-10728-1] c 14 N73-32319
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Indirect microbial detection
[NASA-CASE-LAR-12520-1] c 51 N81-28698
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

MONOCHROMATIC RADIATION
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380
Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900

MONOCHROMATORS
Analytical photoionization mass spectrometer with an argon gas filter between the light source and monochromator Patent
[NASA-CASE-LAR-10180-1] c 06 N71-13461
Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109

MONOMERS
Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
Polyphenylquinoxalines containing alkylendioxo groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

MONOPOLE ANTENNAS
Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
Flexible blade antenna Patent
[NASA-CASE-MSC-12101] c 09 N71-18720

MONOPROPELLANTS
Ignition system for monopropellant combustion devices Patent
[NASA-CASE-XNP-00249] c 28 N70-38249
Ignition means for monopropellant Patent
[NASA-CASE-XNP-00876] c 28 N70-41311
Low thrust monopropellant engine
[NASA-CASE-GSC-12194-2] c 20 N82-18314

MONOPULSE ANTENNAS
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Low noise single aperture multimode monopulse antenna feed system Patent
[NASA-CASE-XNP-01735] c 07 N71-22750
Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

MONOPULSE RADAR
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Monopulse tracking system Patent
[NASA-CASE-XGS-01155] c 10 N71-21483

MONOSTABLE MULTIVIBRATORS
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

MORPHOLOGY
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

MOSSBAUER EFFECT
Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091
Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

MOTION
Quick attach mechanism Patent
[NASA-CASE-XFR-05421] c 15 N71-22994

MOTION PICTURES
Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153
Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

MOTION SIMULATORS
Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662
Helmet weight simulator
[NASA-CASE-LAR-12320-1] c 54 N81-27806

MOTION STABILITY
Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658

MOTORS
Nonmagnetic thermal motor for a magnetometer
[NASA-CASE-XAR-03786] c 09 N69-21313
System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805
Mechanical thermal motor
[NASA-CASE-MFS-23062-1] c 37 N77-12402
Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

MOUNTING
Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813
Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Deformable bearing seat
[NASA-CASE-LEW-12527-1] c 37 N77-32500
Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] c 37 N84-16560
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

MOVING TARGET INDICATORS
Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

MULTIBEAM ANTENNAS
Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

MULTICHANNEL COMMUNICATION
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625

Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

MULTILAYER INSULATION
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022

Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351

Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

Method of making an insulation foil
[NASA-CASE-LEW-11484-1] c 24 N75-33181

Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417

MULTIPACTOR DISCHARGES
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

MULTIPATH TRANSMISSION
Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392

Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

MULTIPLE BEAM INTERVAL SCANNERS
Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Variable beamwidth antenna --- with multiple beam, variable feed system
[NASA-CASE-GSC-11862-1] c 32 N76-18295

MULTIPLE DOCKING ADAPTERS
Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

MULTIPLE OUTPUT PROGRAMS
Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

MULTIPLEXING
Doppler frequency spread correction device for multiplex transmissions
[NASA-CASE-XGS-02749] c 07 N69-39978

Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814

Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Method and apparatus for data compression by a decreasing slope threshold test
[NASA-CASE-NPO-10769] c 08 N72-11171

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115

Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889

System for a displaying at a remote station data generated at a central station and for powering the remote station from the central station
[NASA-CASE-GSC-12411-1] c 33 N81-14221

Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278

High-speed multiplexing of keyboard data inputs
[NASA-CASE-NPO-14554-1] c 60 N81-27814

Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474

Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662

Laser Doppler velocimeter multiplexer interface for simultaneous measured events
[NASA-CASE-ARC-11536-1] c 33 N89-14384

MULTIPLIERS
Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390

Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447

Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712

Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341

MULTISPECTRAL BAND SCANNERS
Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

Multispectral scanner optical system
[NASA-CASE-MSC-18255-1] c 74 N80-33210

Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

MULTISPECTRAL LINEAR ARRAYS
Time delay and integration detectors using charge transfer devices
[NASA-CASE-GSC-12324-1] c 33 N81-33403

Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650

MULTISPECTRAL PHOTOGRAPHY
Multispectral imaging system
[NASA-CASE-MSC-12404-1] c 23 N73-13661

Optical process for producing classification maps from multispectral data
[NASA-CASE-MSC-14472-1] c 43 N77-10584

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288

Interactive color display for multispectral imagery using correlation clustering
[NASA-CASE-MSC-16253-1] c 32 N79-20297

MULTISPECTRAL TRACKING TELESCOPES
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

MULTISTAGE ROCKET VEHICLES
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176

Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

Multi-mission module Patent
[NASA-CASE-MSC-01543] c 31 N71-17730

Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874

Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008

Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

MULTIVIBRATORS
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604

Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995

High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042

A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723

Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468

Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570

MUSCLES
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329

Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703

MUSCULAR FUNCTION
Miniature muscle displacement transducer
[NASA-CASE-NPO-13519-1] c 33 N76-19338

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MUSCULOSKELETAL SYSTEM
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738

MYOCARDIUM
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895

Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072

MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

N

N-TYPE SEMICONDUCTORS
Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321

NACELLES
Inlet deflector for jet engines Patent
[NASA-CASE-XLE-00388] c 28 N70-34788

Nacelle afterbody for jet engines Patent
[NASA-CASE-XLA-10450] c 28 N71-21493

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066

Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

NASA PROGRAMS
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474

NAVIGATION
Thumb-actuated two-axis controller
[NASA-CASE-ARC-11372-1] c 08 N86-27288

NAVIGATION AIDS
Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114

Ruler for making navigational computations
[NASA-CASE-XNP-01458] c 04 N78-17031

System for providing an integrated display of instantaneous information relative to aircraft attitude, heading, altitude, and horizontal situation
[NASA-CASE-FRC-11005-1] c 06 N82-16075

Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

NAVIGATION INSTRUMENTS
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552

NAVIGATION SATELLITES
Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948

NEAR INFRARED RADIATION
Collimator of multiple plates with axially aligned identical random arrays of apertures
[NASA-CASE-MFS-20546-2] c 14 N73-30389

NEGATIVE FEEDBACK
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015

Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335

NEGATIVE IONS
Generation of intense negative ion beams
[NASA-CASE-NPO-16061-1-CU] c 72 N87-21660

NEODYMIUM LASERS
Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

NERVES
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NETWORK SYNTHESIS
Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421

NEURAL NETS
Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

NEUROGLIA
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738

NEUROLOGY
Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863

NEURONS
Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

NEUTRALIZERS
Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

- Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039
- NEUTRON EMISSION**
Deuterium pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- NICKEL**
Process for producing dispersion strengthened nickel with aluminum Patent
[NASA-CASE-XLE-06969] c 17 N71-24142
Selective nickel deposition
[NASA-CASE-LEW-10965-1] c 15 N72-25452
Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126
Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
Directionally solidified eutectic gamma-gamma nickel-base superalloys
[NASA-CASE-LEW-12905-1] c 26 N78-18183
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] c 26 N84-22734
Metal (2) 4,4',4'',4''' phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
- NICKEL ALLOYS**
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Nickel-base alloy Patent
[NASA-CASE-XLE-00283] c 17 N70-36616
Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B Patent
[NASA-CASE-XLE-02082] c 17 N71-16026
Nickel base alloy
[NASA-CASE-LEW-10874-1] c 17 N72-22535
Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055
Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
Nickel base alloy --- for gas turbine engine stator vanes
[NASA-CASE-LEW-12270-1] c 26 N77-32280
Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
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[NASA-CASE-LEW-14262-1] c 26 N87-28647
- NICKEL CADMIUM BATTERIES**
Heat flow calorimeter --- measures output of Ni-Cd batteries
[NASA-CASE-GSC-11434-1] c 34 N74-27859
Method and apparatus for conditioning of nickel-cadmium batteries
[NASA-CASE-MFS-23270-1] c 44 N78-25531
- NICKEL COATINGS**
Nickel aluminide coated low alloy stainless steel
[NASA-CASE-LEW-11267-1] c 17 N73-32414
Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- NICKEL COMPOUNDS**
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608
Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- NICKEL HYDROGEN BATTERIES**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- NICKEL PLATE**
Plating nickel on aluminum castings Patent
[NASA-CASE-XNP-04148] c 17 N71-24830
- NICKEL ZINC BATTERIES**
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- NIOBIUM**
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
- NIOBIUM COMPOUNDS**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
- NITRAMINE PROPELLANTS**
Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255
- NITRIC OXIDE**
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298
- NITRIDES**
Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
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- NITRIDING**
Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- NITRILES**
Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562
Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
- NITRO COMPOUNDS**
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
- NITROAMINES**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- NITROGEN**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- NITROGEN COMPOUNDS**
Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- NITROGEN OXIDES**
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Combustor --- low nitrogen oxide formation
[NASA-CASE-NPO-13958-1] c 25 N79-11151
- NITROGEN TETROXIDE**
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- NITROGUANIDINE**
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- NOBLE METALS**
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- NODES (STANDING WAVES)**
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- NOISE GENERATORS**
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- NOISE METERS**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- NOISE REDUCTION**
Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Casseggrainian antenna subreflector flange for suppressing ground noise Patent
[NASA-CASE-XNP-00683] c 09 N70-35425
Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964
- Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
- Audio signal processor Patent
[NASA-CASE-MSC-12223-1] c 07 N71-26181
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Audio system with means for reducing noise effects
[NASA-CASE-NPO-11631] c 10 N73-12244
Gas turbine exhaust nozzle --- for noise reduction
[NASA-CASE-LEW-11569-1] c 07 N74-15453
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Jet exhaust noise suppressor
[NASA-CASE-LEW-11286-1] c 07 N74-27490
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Variably positioned guide vanes for aerodynamic choking
[NASA-CASE-LAR-10642-1] c 07 N74-31270
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Abating exhaust noises in jet engines
[NASA-CASE-ARC-10712-1] c 07 N74-33218
Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MSC-12640-1] c 74 N76-31998
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421
Totally confined explosive welding
[NASA-CASE-LAR-10941-2] c 37 N79-13364
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Curved centerline air intake for a gas turbine engine
[NASA-CASE-LEW-13201-1] c 07 N81-14999
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Comparator with noise suppression
[NASA-CASE-LAR-13151-1] c 33 N87-21235
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
- NOISE TEMPERATURE**
Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- NOISE THRESHOLD**
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
- NONADIABATIC CONDITIONS**
Direct heating surface combustor
[NASA-CASE-LEW-11877-1] c 34 N78-27357
- NONDESTRUCTIVE TESTS**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964
Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

Method and device for detecting voids in low density material Patent
[NASA-CASE-MFS-20044] c 14 N71-28993

Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515

Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447

Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126

Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279

Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276

Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N88-23983

Method and apparatus for non-destructive testing of temper embrittlement in steels
[NASA-CASE-LAR-13817-1] c 26 N88-29012

NONEQUILIBRIUM CONDITIONS
Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

NONEQUILIBRIUM PLASMAS
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884

NONEQUILIBRIUM RADIATION
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

NONFLAMMABLE MATERIALS
Influmescant paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

NONLINEAR FEEDBACK
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373

NONLINEAR FILTERS
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493

NONLINEAR OPTICS
Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

NONLINEAR SYSTEMS
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Nonlinear analog-to-digital converter Patent
[NASA-CASE-XAC-04031] c 08 N71-18594

Split range transducer
[NASA-CASE-XLA-11189] c 10 N72-20222

Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439

NORMAL DENSITY FUNCTIONS
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

NOSE CONES
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

NOSE WHEELS
Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

NOTCH STRENGTH
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583

NOTCH TESTS

Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131

Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOTCHES
Notch filter
[NASA-CASE-MFS-23303-1] c 32 N77-18307

NOZZLE DESIGN
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284

Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711

Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637

Injector assembly for liquid fueled rocket engines Patent
[NASA-CASE-XMF-00968] c 28 N71-15660

Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224

Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330

Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068

Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065

Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

Variable area exhaust nozzle
[NASA-CASE-LEW-12378-1] c 07 N79-14097

Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

Sandblasting nozzle
[NASA-CASE-NPO-13823-1] c 37 N81-25371

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051

NOZZLE FLOW
Control system for rocket vehicles Patent
[NASA-CASE-XLA-01163] c 21 N71-15582

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339

Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129

NOZZLE GEOMETRY
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123

Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684

NOZZLE INSERTS
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967

Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

NUCLEAR EXPLOSION EFFECT
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852

NUCLEAR FUEL ELEMENTS
Nuclear fuel elements
[NASA-CASE-XLE-00209] c 22 N73-32528

NUCLEAR MAGNETIC RESONANCE
Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

NUCLEAR POWER PLANTS
Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

NUCLEAR PUMPED LASERS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

NUCLEAR PUMPING
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415

NUCLEAR REACTOR CONTROL
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913

NUCLEAR REACTORS
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891

High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179

Jet pump-drive system for heat removal
[NASA-CASE-NPO-16494-1-CU] c 34 N85-29182

NUCLEATE BOILING
Method of improving heat transfer characteristics in a nucleate boiling process Patent
[NASA-CASE-XMS-04268] c 33 N71-16277

NUCLEOPHILES
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

NULL ZONES
Null device for hand controller Patent
[NASA-CASE-XLA-01808] c 15 N71-20740

NUMBER THEORY
Binary concatenated coding system
[NASA-CASE-MSC-14082-1] c 60 N76-23850

NUMERICAL ANALYSIS
Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

NUMERICAL CONTROL
Fringe counter for interferometers Patent
[NASA-CASE-LAR-10204] c 14 N71-27215

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Controller for computer control of brushless dc motors --- automobile engines
[NASA-CASE-NPO-13970-1] c 33 N81-20352

Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013

Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681

Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Bus programmable slave module
[NASA-CASE-MSC-21387-1] c 61 N90-16411

A digitally controlled system for effecting and presenting a selected electrical resistance
[NASA-CASE-MFS-29149-1] c 33 N90-19492

NUMERICAL INTEGRATION
Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437

NUOTATION
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

Nutation damper
[NASA-CASE-MSC-11205-1] c 15 N73-25513

NUOTATION DAMPERS
Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064

NUTS (FASTENERS)
Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922

Split nut separation system Patent
[NASA-CASE-XNP-06914] c 15 N71-21489

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653

Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

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O RING SEALS

High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908

Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442

- Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
- Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
- High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- OBlique WINGS**
Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- OBSERVATION**
Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- OCCLUSION**
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- OCEAN CURRENTS**
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- OCEAN DATA ACQUISITIONS SYSTEMS**
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- OCEAN SURFACE**
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667
- OCEAN THERMAL ENERGY CONVERSION**
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
- ODORS**
Vapor fragrancier
[NASA-CASE-LAR-13680-1] c 35 N87-25561
- OFFSHORE PLATFORMS**
Ocean thermal plant
[NASA-CASE-KSC-11034-1] c 44 N78-32542
- OHMMETERS**
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
- Four-terminal electrical testing device --- initiator bridgewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555
- OIL EXPLORATION**
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- Borehole geological assessment
[NASA-CASE-NPO-14231-1] c 46 N80-10709
- OIL RECOVERY**
Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
- Crude oil desulfurization
[NASA-CASE-NPO-14542-1] c 25 N82-23282
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- OILS**
Method of recording a gas flow pattern Patent
[NASA-CASE-XMF-01779] c 12 N71-20815
- Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308
- OMNIDIRECTIONAL ANTENNAS**
Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888
- Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
- Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
- ONBOARD EQUIPMENT**
Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
- Cryogenic storage system Patent
[NASA-CASE-XMS-04390] c 31 N70-41871
- Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616
- Satellite appendage tie down cord Patent
[NASA-CASE-XGS-02554] c 31 N71-21064
- Satellite aided vehicle avoidance system Patent
[NASA-CASE-ERC-10090] c 21 N71-24948
- A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
- Collapsible Apollo couch
[NASA-CASE-MSC-13140] c 05 N72-11085
- Monostable multivibrator
[NASA-CASE-GSC-10082-1] c 10 N72-20221
- Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
- Electronic strain-level counter
[NASA-CASE-LAR-10756-1] c 32 N73-26910
- Magnetic heading reference
[NASA-CASE-LAR-11387-1] c 04 N76-20114
- OPEN CHANNEL FLOW**
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- OPERATING TEMPERATURE**
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- OPERATIONAL AMPLIFIERS**
Digital automatic gain amplifier
[NASA-CASE-KSC-11008-1] c 33 N79-22373
- Automatic level control circuit
[NASA-CASE-KSC-11170-1] c 33 N83-36356
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- OPHTHALMOLOGY**
Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
- Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
- OPTICAL COMMUNICATION**
Retrodirective optical system
[NASA-CASE-XGS-04480] c 16 N69-27491
- Optical communications system Patent
[NASA-CASE-XLA-01090] c 07 N71-12389
- Optical frequency waveguide and transmission system Patent
[NASA-CASE-HQN-10541-4] c 16 N71-27183
- High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
- Apparatus for simulating optical transmission links
[NASA-CASE-GSC-11877-1] c 74 N76-18913
- Fiber distributed feedback laser
[NASA-CASE-NPO-13531-1] c 36 N76-24553
- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
- Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
- Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
- Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207
- OPTICAL COUPLING**
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- Optical fiber coupling method and apparatus
[NASA-CASE-NPO-15464-1] c 74 N85-29749
- OPTICAL DATA PROCESSING**
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
- Recorder/processor apparatus --- for optical data processing
[NASA-CASE-GSC-11553-1] c 35 N74-15831
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
- OPTICAL DENSITY**
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783
- Laser schlieren crystal monitor
[NASA-CASE-MFS-28060-1] c 76 N87-25862
- OPTICAL EMISSION SPECTROSCOPY**
Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041
- Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N89-14119
- OPTICAL EQUIPMENT**
Light detection instrument Patent
[NASA-CASE-XGS-05534] c 23 N71-16355
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268
- Laser grating interferometer Patent
[NASA-CASE-XLA-04295] c 16 N71-24170
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
- Petzval type objective including field shaping lens Patent
[NASA-CASE-GSC-10700] c 23 N71-30027
- Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Borescope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
- Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
- Infrared horizon locator
[NASA-CASE-LAR-10726-1] c 14 N73-20475
- Multiple pass reimaging optical system
[NASA-CASE-ARC-10194-1] c 23 N73-20741
- Attitude sensor
[NASA-CASE-LAR-10586-1] c 19 N74-15089
- Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
- Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
- Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
- Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
- Optical alignment device
[NASA-CASE-ARC-10932-1] c 74 N76-22993
- Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793
- Optical instrument employing reticle having preselected visual response pattern formed thereon
[NASA-CASE-ARC-10976-1] c 74 N77-22950
- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
- Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
- Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
- Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- High speed multi focal plane optical system
[NASA-CASE-GSC-12683-1] c 74 N83-36898
- Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396
- High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] c 74 N87-14971
- OPTICAL FIBERS**
Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N89-14119

OPTICAL FILTERS

- High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
Method and apparatus for eliminating coherent noise in a coherent energy imaging system without destroying spatial coherence
[NASA-CASE-GSC-11133-1] c 23 N72-11568
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MS-C-12640-1] c 74 N76-31998
System for producing chroma signals
[NASA-CASE-MS-C-14683-1] c 74 N77-18893
Optical conversion method --- for spacecraft television
[NASA-CASE-MS-C-12618-1] c 74 N78-17865
Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] c 74 N86-29650
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

OPTICAL GYROSCOPES

- Optical gyroscope system
[NASA-CASE-NPO-14258-1] c 35 N81-33448
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037
Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

OPTICAL HETERODYNING

- Multispectral imaging system
[NASA-CASE-MS-C-12404-1] c 23 N73-13661
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346

OPTICAL MATERIALS

- Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Containerless high purity pulling process and apparatus for glass fiber
[NASA-CASE-MFS-25905-2] c 31 N86-21718

OPTICAL MEASUREMENT

- Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040
Hybrid holographic non-destructive test system
[NASA-CASE-MFS-23114-1] c 38 N78-32447
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Film advance indicator
[NASA-CASE-LAR-12474-1] c 35 N82-26628
Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

OPTICAL MEASURING INSTRUMENTS

- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428
Optical machine tool alignment indicator Patent
[NASA-CASE-XAC-09489-1] c 15 N71-26673
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
Multiparameter vision testing apparatus
[NASA-CASE-MS-C-13601-2] c 54 N75-27759
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687
Interferometer
[NASA-CASE-NPO-14502-1] c 74 N81-17888

Optical crystal temperature gauge with fiber optic connections

- [NASA-CASE-MS-C-18627-1] c 74 N82-30071
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] c 74 N84-11921
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
Vibration-free Raman Doppler velocimeter
[NASA-CASE-LAR-13268-1] c 35 N87-14669
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

OPTICAL PATHS

- Optical instruments
[NASA-CASE-MS-C-14096-1] c 74 N74-15095
Large volume multiple-path nuclear pumped laser
[NASA-CASE-LAR-12592-1] c 36 N82-13415
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

OPTICAL POLARIZATION

- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305

OPTICAL PROPERTIES

- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Optically actuated two position mechanical mover
[NASA-CASE-NPO-13105-1] c 37 N74-21060
Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

OPTICAL PUMPING

- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
Laser head for simultaneous optical pumping of several dye lasers --- with single flash lamp
[NASA-CASE-LAR-11341-1] c 36 N75-19655
Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] c 36 N84-28065

OPTICAL PYROMETERS

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254

OPTICAL RADAR

- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437

OPTICAL RANGE FINDERS

- Altitude sensing device
[NASA-CASE-XMS-01994-1] c 14 N72-17326
Optical range finder having nonoverlapping complete images
[NASA-CASE-MS-C-12105-1] c 14 N72-21409

OPTICAL REFLECTION

- Hybrid holographic system using reflected and transmitted object beams simultaneously Patent
[NASA-CASE-MFS-20074] c 16 N71-15565
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Gregorian all-reflective optical system
[NASA-CASE-GSC-12058-1] c 74 N77-26942
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302

OPTICAL RESONANCE

- Optically pumped resonance magnetometer for determining vectorial components in a spatial coordinate system Patent
[NASA-CASE-XGS-04879] c 14 N71-20428

- Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653

OPTICAL SCANNERS

- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Electro-optical scanning apparatus Patent Application
[NASA-CASE-NPO-11106] c 14 N70-34697
Multi-lobar scan horizon sensor Patent
[NASA-CASE-XGS-00809] c 21 N70-35427
Optical binocular scanning apparatus
[NASA-CASE-NPO-11002] c 14 N72-22441
Spacecraft attitude sensor
[NASA-CASE-GSC-10890-1] c 21 N73-30640
Optical instruments
[NASA-CASE-MS-C-14096-1] c 74 N74-15095
Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431
Traffic survey system --- using optical scanners
[NASA-CASE-MFS-22631-1] c 66 N76-19888
Optical scanner --- laser doppler velocimeters
[NASA-CASE-LAR-11711-1] c 74 N78-17866
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Scanning afocal laser velocimeter projection lens system
[NASA-CASE-LAR-12328-1] c 36 N82-32712
Optical scanner
[NASA-CASE-GSC-12897-1] c 74 N87-21679

OPTICAL TRACKING

- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

OPTICAL TRANSFER FUNCTION

- Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935

OPTICAL WAVEGUIDES

- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029

OPTIMIZATION

- Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407

OPTOELECTRONIC DEVICES

- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

OPTOGALVANIC SPECTROSCOPY

- Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] c 35 N86-25753

ORAL HYGIENE

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ORBIT TRANSFER VEHICLES

- Tanker orbit transfer vehicle and method
[NASA-CASE-MS-C-20543-1] c 18 N84-22610

ORBITAL ASSEMBLY

- Structural members, method and apparatus
[NASA-CASE-MS-C-16217-1] c 31 N81-27323
Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MS-C-20985-1] c 18 N88-26398

- Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138
- ORBITAL LAUNCHING**
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469
- ORBITAL MANEUVERING VEHICLES**
Orbital maneuvering end effectors
[NASA-CASE-MFS-28161-1] c 37 N87-18817
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- ORBITAL MANEUVERS**
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
- ORBITAL MECHANICS**
A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- ORBITAL SERVICING**
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
- ORDNANCE**
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863
- ORGANIC CHEMISTRY**
Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
Amino acid analysis
[NASA-CASE-NPO-12130-1] c 25 N75-14844
- ORGANIC COMPOUNDS**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500
Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620
Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Automated system for identifying traces of organic chemical compounds in aqueous solutions
[NASA-CASE-NPO-13063-1] c 25 N76-18245
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Amine terminated bisaspartamide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
The 1-((diorganoxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
- ORGANIC MATERIALS**
Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840
- ORGANIC SILICON COMPOUNDS**
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- ORGANIC SULFUR COMPOUNDS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
- ORGANOMETALLIC COMPOUNDS**
Ammonium perchlorate composite propellant containing an organic transitional metal chelate catalytic additive Patent
[NASA-CASE-LAR-10173-1] c 27 N71-14090
Trialkyl-dihaloantimony and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Carboranyl-methylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- ORGANOMETALLIC POLYMERS**
Metal containing polymers from cyclic tetrameric phenylphosphonitrilamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Thiophenyl ether disiloxanes and trisiloxanes useful as lubricant fluids
[NASA-CASE-MFS-22411-1] c 37 N74-21058
- ORIFICE FLOW**
Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- ORIFICES**
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- ORTHO HYDROGEN**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHO PARA CONVERSION**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- ORTHOGONAL MULTIPLEXING THEORY**
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- ORTHOGONALITY**
Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793
- ORTHOPEDECS**
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-1] c 54 N76-22914
Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- ORTHOTROPIC CYLINDERS**
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
- OSCILLATION DAMPERS**
Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Apparatus for damping operator induced oscillations of a controlled system --- flight control
[NASA-CASE-FRC-11041-1] c 33 N82-18493
Method of damping nutation motion with minimum spin axis attitude disturbance
[NASA-CASE-GSC-12551-1] c 18 N83-28064
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- OSCILLATIONS**
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- OSCILLATORS**
Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Frequency control network for a current feedback oscillator Patent
[NASA-CASE-GSC-10041-1] c 10 N71-19418
Static inverter Patent
[NASA-CASE-XGS-05289] c 09 N71-19470
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271
Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
Inverter oscillator with voltage feedback
[NASA-CASE-NPO-10760] c 09 N72-25254
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
[NASA-CASE-MFS-21698-1] c 33 N74-26732
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] c 33 N84-27974
JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- OSCILLOSCOPES**
Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
X-Y alphanumeric character generator for oscilloscopes
[NASA-CASE-GSC-11582-1] c 33 N75-19517
- OUTER PLANETS EXPLORERS**
Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613
- OUTGASSING**
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582
Low outgassing polydimethylsiloxane material and preparation thereof
[NASA-CASE-GSC-11358-1] c 06 N73-26100
Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147
- OUTLET FLOW**
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
- OUTPUT**
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Ovens**
Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- OVERPRESSURE**
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- OVERVOLTAGE**
Protective circuit of the spark gap type
[NASA-CASE-XAC-08981] c 09 N69-39897
Power responsive overload sensing circuit Patent
[NASA-CASE-GSC-10667-1] c 10 N71-33129
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929
Overload protection system for power inverter
[NASA-CASE-NPO-13872-1] c 33 N78-10377
- OXAZOLE**
Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- OXIDATION**
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Automated analysis of oxidative metabolites
[NASA-CASE-ARC-10469-1] c 25 N75-12086
Hydrogen rich gas generator
[NASA-CASE-NPO-13464-2] c 44 N76-29704
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MSC-14831-1] c 25 N78-10225
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

- Overlay metallic-cermet alloy coating systems
 [NASA-CASE-LEW-13639-1] c 26 N84-33555
 Oxidation protection coatings for polymers
 [NASA-CASE-LEW-14072-1] c 27 N86-19458
 Oxidation protection coatings for polymers
 [NASA-CASE-LEW-14072-3] c 27 N87-23736
 Oxidation of semiconductors and superconductors
 [NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
 Catalyst for carbon monoxide oxidation
 [NASA-CASE-LAR-14155-1-SB] c 25 N90-11823
 Novel polyimide compositions based on 4,4':
 Isophthaloyldiphthalic anhydride (IDPA)
 [NASA-CASE-LAR-14194-1] c 24 N90-15148

OXIDATION RESISTANCE

- Nickel-base alloy containing Mo-W-Al-Cr-Ta-Zr-C-Nb-B
 Patent
 [NASA-CASE-XLE-02082] c 17 N71-16026
 Method of protecting the surface of a substrate --- by
 applying aluminide coating
 [NASA-CASE-LEW-11696-1] c 37 N75-13261
 Duplex aluminized coatings
 [NASA-CASE-LEW-11696-2] c 26 N75-19408
 High temperature oxidation resistant cermet
 compositions
 [NASA-CASE-NPO-13666-1] c 27 N77-13217
 High temperature resistant cermet and ceramic
 compositions
 [NASA-CASE-NPO-13690-2] c 27 N79-14213
 Method of making bearing materials --- self-lubricating,
 oxidation resistant composites for high temperature
 applications
 [NASA-CASE-LEW-11930-4] c 24 N79-17916
 Nicral ternary alloy having improved cyclic oxidation
 resistance
 [NASA-CASE-LEW-13339-1] c 26 N82-31505
 Thermal barrier coating system
 [NASA-CASE-LEW-14057-1] c 24 N85-35233
 High temperature resistant polyimide from tetra ester,
 diamine, diester and N-arylnadimide
 [NASA-CASE-LEW-13864-1] c 27 N86-19457
 Apparatus for producing oxidation protection coatings
 for polymers
 [NASA-CASE-LEW-14072-2] c 27 N86-32569
 Nickel base coating alloy
 [NASA-CASE-LEW-13834-1] c 26 N87-14482
 Oxygen diffusion barrier coating
 [NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

OXIDATION-REDUCTION REACTIONS

- Electrochemical cell for rebalancing REDOX flow
 system
 [NASA-CASE-LEW-13150-1] c 44 N79-26474
 Catalyst surfaces for the chromous/chromic redox
 couple
 [NASA-CASE-LEW-13148-1] c 33 N80-20487
 Method of making formulated plastic separators for
 soluble electrode cells
 [NASA-CASE-LEW-12358-2] c 25 N82-21268

OXIDE FILMS

- Method of forming oxide coatings --- for solar collector
 heating panels
 [NASA-CASE-LEW-13132-1] c 27 N83-29388
 Thermal barrier coating system
 [NASA-CASE-LEW-14057-1] c 24 N85-35233
 Oxidation protection coatings for polymers
 [NASA-CASE-LEW-14072-1] c 27 N86-19458
 Apparatus for producing oxidation protection coatings
 for polymers
 [NASA-CASE-LEW-14072-2] c 27 N86-32569
 Oxidation protection coatings for polymers
 [NASA-CASE-LEW-14072-3] c 27 N87-23736

OXIDES

- Novel polymers and method of preparing same
 [NASA-CASE-NPO-10998-1] c 06 N73-32029

OXIDIZERS

- Electrolytically regenerative hydrogen-oxygen fuel cell
 Patent
 [NASA-CASE-XLE-04526] c 03 N71-11052
 Injection head for delivering liquid fuel and oxidizers
 [NASA-CASE-NPO-10046] c 28 N72-17843
 Device and method for frictionally testing materials for
 ignitability
 [NASA-CASE-MSC-20622-1] c 25 N86-19413

OXIMETRY

- Method and apparatus for continuously monitoring blood
 oxygenation, blood pressure, pulse rate and the pressure
 pulse curve utilizing an ear oximeter as transducer
 Patent
 [NASA-CASE-XAC-05422] c 04 N71-23185

OXYGEN

- Analytical test apparatus and method for determining
 oxide content of alkali metal Patent
 [NASA-CASE-XLE-01997] c 06 N71-23527
 Method for removing oxygen impurities from cesium
 Patent
 [NASA-CASE-XNP-04262-2] c 17 N71-26773

- Method of detecting oxygen in a gas
 [NASA-CASE-LAR-10668-1] c 06 N73-16106
 Method for obtaining oxygen from lunar or similar soil
 [NASA-CASE-MSC-12408-1] c 46 N74-13011
 Nonflammable coating compositions --- for use in high
 oxygen environments
 [NASA-CASE-MFS-20486-2] c 27 N74-17283
 A system for controlling the oxygen content of a gas
 produced by combustion
 [NASA-CASE-LAR-13257-1] c 25 N84-32447
 Technique for measuring gas conversion factors
 [NASA-CASE-LAR-13220-1] c 34 N86-12547
 Oxygen recombination in individual pressure vessel
 nickel-hydrogen batteries
 [NASA-CASE-LEW-13822-1] c 44 N86-25874
 Method and apparatus for maintaining thermal control
 in plasma conditions
 [NASA-CASE-MFS-28368-1] c 75 N90-10717

OXYGEN ATOMS

- Variable energy, high flux, ground-state atomic oxygen
 source
 [NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

OXYGEN CONSUMPTION

- Method and system for respiration analysis Patent
 [NASA-CASE-XFR-08403] c 05 N71-11202

OXYGEN FLUORIDES

- Utilization of oxygen difluoride for syntheses of
 fluoropolymers
 [NASA-CASE-NPO-12061-1] c 27 N76-16228

OXYGEN METABOLISM

- Metabolic analyzer --- for measuring metabolic rate and
 breathing dynamics of human beings
 [NASA-CASE-MFS-21415-1] c 52 N74-20728

OXYGEN PLASMA

- Oxygen post-treatment of plastic surface coated with
 plasma polymerized silicon-containing monomers
 [NASA-CASE-ARC-10915-2] c 27 N79-18052

OXYGEN PRODUCTION

- Liquid hydrogen polygeneration system and process
 [NASA-CASE-KSC-11304-2] c 28 N86-23744

OXYGEN REGULATORS

- Lead-oxygen dc power supply system having a closed
 loop oxygen and water system
 [NASA-CASE-MFS-23059-1] c 44 N76-27664

OXYGEN SUPPLY EQUIPMENT

- Self-contained breathing apparatus
 [NASA-CASE-MSC-14733-1] c 54 N76-24900
 Slow opening valve --- valve design for shuttle portable
 oxygen system
 [NASA-CASE-MSC-20112-1] c 37 N85-20338

OZONE

- Thermoluminescent aerosol analysis
 [NASA-CASE-LAR-12046-1] c 25 N78-15210
 Ozonation of cooling tower waters
 [NASA-CASE-NPO-14340-1] c 45 N80-14579
 Curable liquid hydrocarbon prepolymers containing
 hydroxyl groups and process for producing same
 [NASA-CASE-NPO-13137-1] c 27 N80-32514

P**P-I-N JUNCTIONS**

- High voltage v-groove solar cell
 [NASA-CASE-LEW-13401-2] c 44 N83-32177

P-N JUNCTIONS

- Thin window, drifted silicon, charged particle detector
 [NASA-CASE-XLE-10529] c 14 N69-23191
 Semiconductor p-n junction stress and strain sensor
 [NASA-CASE-XLA-04980] c 09 N69-27422
 Radiation resistant silicon semiconductor devices
 Patent
 [NASA-CASE-XGS-07801] c 09 N71-12513
 Biomedical radiation detecting probe Patent
 [NASA-CASE-XMS-01177] c 05 N71-19440
 Method of making electrical contact on silicon solar cell
 and resultant product Patent
 [NASA-CASE-XLE-04787] c 03 N71-20492
 Method of changing the conductivity of vapor deposited
 gallium arsenide by the introduction of water into the vapor
 deposition atmosphere Patent
 [NASA-CASE-XNP-01961] c 26 N71-29156
 Method of making semiconductor p-n junction stress
 and strain sensor
 [NASA-CASE-XLA-04980-2] c 14 N72-28438
 Semiconductor surface protection material
 [NASA-CASE-ERC-10339-1] c 18 N73-30532
 Method and apparatus for measuring minority carrier
 lifetimes and bulk diffusion length in P-N junction solar
 cells
 [NASA-CASE-NPO-14100-1] c 44 N79-12541
 Back wall solar cell
 [NASA-CASE-LEW-12236-2] c 44 N79-14528

P-TYPE SEMICONDUCTORS

- Semiconductor material and method of making same
 Patent
 [NASA-CASE-XLE-02798] c 26 N71-23654
 Integrated P-channel MOS gyrator
 [NASA-CASE-MFS-22343-1] c 33 N74-34638
 Method of Fabricating Schottky Barrier solar cell
 [NASA-CASE-NPO-13689-4] c 44 N82-28780

PACKAGES

- Impact testing machine Patent
 [NASA-CASE-XNP-04817] c 14 N71-23225
 One hand backpack harness
 [NASA-CASE-LAR-10102-1] c 05 N72-23085

PACKAGING

- Folding apparatus Patent
 [NASA-CASE-XLA-00137] c 15 N70-33180
 Reflector space satellite Patent
 [NASA-CASE-XLA-00138] c 31 N70-37981
 Apparatus and method for skin packaging articles
 [NASA-CASE-MFS-20855] c 15 N73-27405
 Double-sided solar cell package
 [NASA-CASE-NPO-14199-1] c 44 N79-25482

PACKET TRANSMISSION

- Multicomputer communication system
 [NASA-CASE-NPO-15433-1] c 32 N85-21428

PACKING DENSITY

- Micropacked column for a chromatographic system
 [NASA-CASE-XNP-04816] c 06 N69-39936
 High density tape casting system
 [NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

PACKINGS (SEALS)

- Fluid seal for rotating shafts
 [NASA-CASE-LEW-11676-1] c 37 N76-22541

PAD

- Lubricated journal bearing
 [NASA-CASE-LEW-11076-3] c 37 N75-30562

PAINTS

- Intumescent paints Patent
 [NASA-CASE-ARC-10099-1] c 18 N71-15469
 Alkali metal silicate protective coating Patent
 [NASA-CASE-XGS-04799] c 18 N71-24183
 Inorganic thermal control pigment Patent
 [NASA-CASE-XNP-02139] c 18 N71-24184
 Diffusely reflecting paints including
 polytetrafluoroethylene and method of manufacture
 [NASA-CASE-GSC-12883-1] c 27 N85-29044

PALLADIUM

- Electrically conductive palladium containing polyimide
 films
 [NASA-CASE-LAR-12705-1] c 25 N82-26396

PALLADIUM COMPOUNDS

- Prevention of pressure build-up in electrochemical cells
 Patent
 [NASA-CASE-XGS-01419] c 03 N70-41864
 Process for separation of dissolved hydrogen from water
 by use of palladium and process for coating palladium
 with palladium black
 [NASA-CASE-MSC-13335-1] c 06 N72-31140

PANELS

- All-directional fastener Patent
 [NASA-CASE-XLA-01807] c 15 N71-10799
 Panelized high performance multilayer insulation
 Patent
 [NASA-CASE-MFS-14023] c 33 N71-25351
 Solar panel fabrication Patent
 [NASA-CASE-XNP-03413] c 03 N71-26726
 Method of making pressurized panel Patent
 [NASA-CASE-XLA-08916] c 15 N71-29018
 Honeycomb panels formed of minimal surface periodic
 tubule layers
 [NASA-CASE-ERC-10364] c 18 N72-25540
 Pressurized panel
 [NASA-CASE-XLA-08916-2] c 14 N73-28487
 Ultrasonic scanner for radial and flat panels
 [NASA-CASE-MFS-20335-1] c 35 N74-10415
 Folding structure fabricated of rigid panels
 [NASA-CASE-XHQ-02146] c 18 N75-27040
 Method of making a composite sandwich lattice
 structure
 [NASA-CASE-LAR-11898-2] c 24 N78-17149
 Selective coating for solar panels --- using black chrome
 and black nickel
 [NASA-CASE-LEW-12159-1] c 44 N78-19599
 Hexagon solar power panel
 [NASA-CASE-NPO-12148-1] c 44 N78-27515
 Aluminum or copper substrate panel for selective
 absorption of solar energy
 [NASA-CASE-MFS-23518-3] c 44 N80-16452
 Structural wood panels with improved fire resistance
 [NASA-CASE-ARC-11174-1] c 24 N81-13999
 Method of forming oxide coatings --- for solar collector
 heating panels
 [NASA-CASE-LEW-13132-1] c 27 N83-29388
 Combustor liner construction
 [NASA-CASE-LEW-14035-1] c 07 N84-24577

- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- Truss-core corrugation for compressive loads
[NASA-CASE-LAR-13438-1] c 31 N89-12786
- High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
- High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444
- PANORAMIC SCANNING**
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N88-24944
- PAPER (MATERIAL)**
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
- PAPERS**
Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457
- PARA HYDROGEN**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- PARABOLIC ANTENNAS**
Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
- Reversible motion drive system Patent
[NASA-CASE-NPO-10173] c 15 N71-24696
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- PARABOLIC REFLECTORS**
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- Plural beam antenna
[NASA-CASE-GSC-11013-1] c 09 N73-19234
- Composite antenna feed
[NASA-CASE-GSC-11046-1] c 07 N73-28013
- Single frequency, two feed dish antenna having switchable beamwidth
[NASA-CASE-GSC-11968-1] c 32 N76-15329
- Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- PARABOLOID MIRRORS**
Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- PARACHUTE DESCENT**
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
- Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Line cutter Patent
[NASA-CASE-XMS-04072] c 15 N70-42017
- Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- PARACHUTE FABRICS**
Lightweight, variable solidity knitted parachute fabric --- for aerodynamic decelerators
[NASA-CASE-LAR-10776-1] c 02 N74-10034
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- PARACHUTES**
System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Deploy/release system --- model aircraft flight control
[NASA-CASE-LAR-11575-1] c 02 N76-16014
- System and method for refurbishing and processing parachutes --- monorial conveyor system
[NASA-CASE-KSC-11042-2] c 02 N81-26073
- Method for refurbishing and processing parachutes
[NASA-CASE-KSC-11042-1] c 09 N82-29330
- Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200
- PARAGLIDERS**
Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804
- PARALLAX**
Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357
- Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629
- PARALLEL PLATES**
Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584
- Dynamic capacitor having a peripherally driven element and system incorporating the same
[NASA-CASE-XNP-02899-1] c 33 N79-21265
- Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
- PARALLEL PROCESSING (COMPUTERS)**
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
- A method of up-front load balancing for local memory parallel processors
[NASA-CASE-MSC-21348-1] c 62 N89-24084
- Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974
- PARAMETER IDENTIFICATION**
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379
- PARAMETRIC AMPLIFIERS**
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- PARAMETRIC FREQUENCY CONVERTERS**
Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- PARAWINGS**
Wing deployment method and apparatus Patent
[NASA-CASE-XMS-00907] c 02 N70-41630
- PARKING**
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480
- PARTIAL PRESSURE**
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
- PARTICLE ACCELERATION**
Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Dust particle injector for hypervelocity accelerators Patent
[NASA-CASE-XGS-06628] c 24 N71-16213
- PARTICLE ACCELERATOR TARGETS**
Dispensing targets for ion beam particle generators
[NASA-CASE-NPO-13112-1] c 73 N74-26767
- Deuteron pass through target --- neutron emitting target
[NASA-CASE-LEW-11866-1] c 72 N76-15860
- Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237
- PARTICLE BEAMS**
Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
[NASA-CASE-XLE-00243] c 14 N70-38602
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] c 72 N84-28575
- PARTICLE COLLISIONS**
Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- PARTICLE DENSITY (CONCENTRATION)**
Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- PARTICLE EMISSION**
Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- PARTICLE ENERGY**
Particle detection apparatus Patent
[NASA-CASE-XLA-00135] c 14 N70-33322
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- PARTICLE MASS**
Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431
- Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
- PARTICLE MOTION**
Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- PARTICLE PRODUCTION**
Production of I-123
[NASA-CASE-LEW-11390-3] c 25 N76-29379
- PARTICLE SIZE DISTRIBUTION**
Micropacked column for a chromatographic system
[NASA-CASE-XNP-04816] c 06 N69-39936
- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382
- Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
- Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- Apparatus for handling micron size range particulate material
[NASA-CASE-NPO-10151] c 37 N78-17386
- Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
- Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] c 37 N84-16561
- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846
- PARTICLE TRAJECTORIES**
Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N78-15433
- Direction sensitive laser velocimeter --- determining the direction of particles using a helium-neon laser
[NASA-CASE-LAR-12177-1] c 36 N81-24422
- PARTICLES**
Soil particles separator, collector and viewer Patent
[NASA-CASE-XNP-09770] c 15 N71-20440
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293
- Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152
- Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
- Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- Controlled method of reducing electrophoretic mobility of various substances
[NASA-CASE-MFS-26049-1-NP] c 25 N89-28603
- PARTICULATE SAMPLING**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Electrophoretic sample insertion --- device for uniformly distributing samples in flow path
[NASA-CASE-MFS-21395-1] c 25 N74-26948
- Sampler of gas borne particles
[NASA-CASE-NPO-13396-1] c 35 N76-18401
- Fine particulate capture device
[NASA-CASE-LEW-11583-1] c 35 N79-17192
- Biocontamination and particulate detection system
[NASA-CASE-NPO-13953-1] c 35 N79-28527
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- PARTICULATES**
Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- PASSAGEWAYS**
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- PASSENGERS**
Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445
- PASSIVE SATELLITES**
Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Method and apparatus for determining electromagnetic characteristics of large surface area passive reflectors Patent
[NASA-CASE-XGS-02608] c 07 N70-41678

Method of making an inflatable panel Patent
[NASA-CASE-XLA-03497] c 15 N71-23052

PATENTS

Constant magnification optical tracking system
[NASA-CASE-NPO-14813-1] c 74 N82-24072

Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494

High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191

PATIENTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

PATTERN RECOGNITION

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161

Auditory display for the blind
[NASA-CASE-HON-10832-1] c 71 N74-21014

Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

Method and apparatus for sensor fusion
[NASA-CASE-MSC-21334-1] c 32 N89-25360

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

PAYLOAD DELIVERY (STS)

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM

Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

PAYLOAD RETRIEVAL (STS)

Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

PAYLOADS

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

PCM TELEMETRY

Variable time constant smoothing circuit Patent
[NASA-CASE-XGS-01983] c 10 N70-41964

Data transfer system Patent
[NASA-CASE-NPO-12107] c 08 N71-27255

High speed direct binary-to-binary coded decimal converter
[NASA-CASE-KSC-10326] c 08 N72-21197

PEELING

Wire stripper
[NASA-CASE-FRC-10111-1] c 37 N79-10419

PEENING

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

PELLETS

Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

PELTIER EFFECTS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146

Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604

PELVIS

Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

PENETRANTS

Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170

PENETRATION

Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

PENETROMETERS

Lunar penetrometer Patent
[NASA-CASE-XLA-00934] c 14 N71-22765

Self-recording portable soil penetrometer
[NASA-CASE-MFS-20774] c 14 N73-19420

Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321

Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443

PERCEPTION

Method for measuring cutaneous sensory perception
[NASA-CASE-MSC-13609-1] c 05 N72-25122

PERFLUORO COMPOUNDS

Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254

Perfluoro polyether acyl fluorides
[NASA-CASE-NPO-10765] c 06 N72-20121

Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107

Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151

Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152

Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144

Polymerizable disilanols having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979-2] c 06 N73-32030

Perfluoro alkylene dioxy-bis-(4-phthalic anhydrides and oxy-bis-(perfluoroalkyleneoxyphthalic anhydrides
[NASA-CASE-MFS-22356-1] c 23 N75-30256

Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353

High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213

Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744

Perfluoro (imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

PERFLUOROALKANE

Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300

PERFORATED PLATES

Process for glass coating an ion accelerator grid Patent
[NASA-CASE-LEW-10278-1] c 15 N71-28582

PERFORATED SHELLS

Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089

PERFORMANCE PREDICTION

Failure detection and control means for improved drift performance of a gimbal platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175

PERFORMANCE TESTS

Frangible electrochemical cell
[NASA-CASE-XGS-10010] c 03 N72-15986

Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033

Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959

Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187

O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546

A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547

Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

PERIODIC VARIATIONS

Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401

PERIPHERAL EQUIPMENT (COMPUTERS)

Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492

PERISCOPES

Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362

PERMANENT MAGNETS

Permanent magnet flux-biased magnetic actuator with flux feedback
[NASA-CASE-LAR-13785-1] c 70 N90-17403

PERMEABILITY

Ionene membrane separator
[NASA-CASE-NPO-11091] c 18 N72-22567

System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507

Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687

Geological assessment probe
[NASA-CASE-NPO-14558-1] c 46 N80-24906

PEROXIDES

Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252

PERSPIRATION

Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

PERTURBATION

Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

PERTURBATION THEORY

Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783

PH FACTOR

Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHASE COHERENCE

Signal phase estimator
[NASA-CASE-NPO-11203] c 10 N72-20224

Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523

PHASE CONTRAST

Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] c 36 N84-25037

PHASE CONTROL

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Wideband VCO with high phase stability Patent
[NASA-CASE-XLA-03893] c 10 N71-27271

Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349

Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345

System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516

Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493

PHASE DEMODULATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334

PHASE DETECTORS

Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272

Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392

High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596

Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885

Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243

Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331

Frequency discriminator and phase detector circuit
[NASA-CASE-NPO-11515-1] c 33 N77-13315

- Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454
- Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Method and apparatus for measuring frequency and phase difference
[NASA-CASE-MSC-20865-1] c 32 N87-18692
- PHASE DEVIATION**
System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- PHASE LOCK DEMODULATORS**
Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
- PHASE LOCKED SYSTEMS**
Automatic acquisition system for phase-lock loop
[NASA-CASE-XGS-04994] c 09 N69-21543
- Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469
- Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transition tracking bit synchronization system
[NASA-CASE-NPO-10844] c 07 N72-20140
- Data-aided carrier tracking loops
[NASA-CASE-NPO-11282] c 10 N73-16205
- Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Digital second-order phase-locked loop
[NASA-CASE-NPO-11905-1] c 33 N74-12887
- Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
- Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758
- Digital phase-locked loop
[NASA-CASE-GSC-11623-1] c 33 N75-25040
- Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
- Phase length optical phase-locked-loop sensor
[NASA-CASE-LAR-13387-1] c 74 N88-25302
- Digital phase-lock loop having an estimator and predictor of error
[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076
- PHASE MODULATION**
Phase quadrature-plural channel data transmission system Patent
[NASA-CASE-XAC-06302] c 08 N71-19763
- Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
- Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
- Phase modulating with odd and even finite power series of a modulating signal
[NASA-CASE-LAR-11607-1] c 32 N77-14292
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature phase demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] c 74 N84-28590
- PHASE SHIFT**
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
- Electromagnetic polarization systems and methods Patent
[NASA-CASE-GSC-10021-1] c 09 N71-24595
- Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
- Time domain phase measuring apparatus
[NASA-CASE-GSC-12228-1] c 33 N79-10338
- Phase-angle controller for Stirling engines
[NASA-CASE-NPO-14388-1] c 37 N81-17432
- JFET reflection oscillator
[NASA-CASE-GSC-12555-1] c 33 N86-19515
- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894
- PHASE SHIFT CIRCUITS**
Gyrator type circuit Patent
[NASA-CASE-XAC-10608-1] c 09 N71-12517
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Continuously variable voltage controlled phase shifter
[NASA-CASE-NPO-11129] c 09 N72-33204
- Induction motor control system with voltage controlled oscillator circuit
[NASA-CASE-MFS-21465-1] c 10 N73-32145
- Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
- Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179
- Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- PHASE SHIFT KEYING**
Decision feedback loop for tracking a polyphase modulated carrier
[NASA-CASE-NPO-13103-1] c 32 N74-20811
- Differential phase shift keyed communication system
[NASA-CASE-MSC-14065-1] c 32 N74-26654
- Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
- Unbalanced quadrature demodulator
[NASA-CASE-MSC-14840-1] c 32 N77-24331
- Method and apparatus for quadrature-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
- Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
- Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
- PHASE SWITCHING INTERFEROMETERS**
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625
- PHASE TRANSFORMATIONS**
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
- PHASE VELOCITY**
Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- PHASED ARRAYS**
Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phased array antenna control
[NASA-CASE-MSC-14939-1] c 32 N79-11264
- Phase conjugation method and apparatus for an active retrodirective antenna array
[NASA-CASE-NPO-13641-1] c 32 N79-24210
- Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
- Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558
- Method and apparatus for self-calibration and phasing of array antenna
[NASA-CASE-NPO-15920-1] c 33 N85-21493
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- PHENOLIC RESINS**
Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
- PHENOLS**
Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029
- Method and device for the detection of phenol and related compounds --- in an electrochemical cell
[NASA-CASE-LEW-12513-1] c 25 N79-22235
- PHENYLS**
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- PHONOCARDIOGRAPHY**
Phonocardiogram simulator Patent
[NASA-CASE-KKS-10804] c 05 N71-24606
- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- PHOSPHATES**
Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
- PHOSPHAZENE**
Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Carbonylcyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
- Carbonylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

PHOSPHINES

- Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

PHOSPHINES

- Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MS-C-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MS-C-14903-3] c 27 N80-24438
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOSPHONITRILES

- Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

PHOSPHORS

- High contrast cathode ray tube
[NASA-CASE-ERC-10468] c 09 N72-20206
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
Flat-panel, full-color, electroluminescent display
[NASA-CASE-LAR-13407-1] c 33 N87-28831

PHOSPHORUS

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

PHOSPHORUS COMPOUNDS

- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525
The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605

PHOSPHORUS POLYMERS

- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranyl cyclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347

PHOTOABSORPTION

- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOCATHODES

- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409

PHOTOCHEMICAL REACTIONS

- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255
Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148
Vitra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MS-C-16074-1] c 27 N80-26446

PHOTOCONDUCTIVE CELLS

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751
Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Photocapacitive image converter
[NASA-CASE-LAR-12513-1] c 44 N82-32841

PHOTOCONDUCTIVITY

- Photoetching of metal-oxide layers
[NASA-CASE-ERC-10108] c 06 N72-21094

PHOTOCONDUCTORS

- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480

PHOTODIODES

- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139

PHOTODISSOCIATION

- Apparatus for extraction and separation of a preferentially photo-dissociated molecular isotope into positive and negative ions by means of an electric field
[NASA-CASE-LEW-12465-1] c 25 N78-25148

PHOTOELECTRIC CELLS

- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Method of and device for determining the characteristics and flux distribution of micrometeorites --- scanning puncture holes in sheet material with photoelectric cell
[NASA-CASE-NPO-12127-1] c 91 N74-13130
Noncontacting method for measuring angular deflection
[NASA-CASE-LAR-12178-1] c 74 N80-21138
Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545

PHOTOELECTRIC EFFECT

- Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

PHOTOELECTRIC EMISSION

- High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877

PHOTOELECTRIC MATERIALS

- Light radiation direction indicator with a baffle of two parallel grids
[NASA-CASE-XNP-03930] c 14 N69-24331
Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475

PHOTOELECTRICITY

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOELECTROCHEMICAL DEVICES

- Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923

PHOTOELECTRON SPECTROSCOPY

- Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429
High resolution threshold photoelectron spectroscopy by electron attachment
[NASA-CASE-NPO-14078-1] c 72 N80-14877
Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659

PHOTOGRAPHIC EMULSIONS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

PHOTOGRAPHIC EQUIPMENT

- Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Method of treating the surface of a glass member
[NASA-CASE-GSC-12110-1] c 27 N77-32308
System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886

PHOTOGRAPHIC FILM

- Film feed camera having a detent means Patent
[NASA-CASE-LAR-10686] c 14 N71-28935
Exposure interlock for oscilloscope cameras
[NASA-CASE-LAR-10319-1] c 14 N73-32322
Optical noise suppression device and method --- laser light exposing film
[NASA-CASE-MS-C-12640-1] c 74 N76-31998
Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
[NASA-CASE-MFS-23250-1] c 35 N82-11432

- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

PHOTOGRAPHIC MEASUREMENT

- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Impact measuring technique
[NASA-CASE-LAR-10913] c 14 N72-16282
TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387

PHOTOGRAPHIC PROCESSING

- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932
Method of obtaining intensified image from developed photographic films and plates
[NASA-CASE-MFS-23461-1] c 35 N79-10389

PHOTOGRAPHIC PROCESSING EQUIPMENT

- Drying apparatus for photographic sheet material
[NASA-CASE-GSC-11074-1] c 14 N73-28489

PHOTOGRAPHIC RECORDING

- Method of obtaining permanent record of surface flow phenomena Patent
[NASA-CASE-XLA-01353] c 14 N70-41366
Focused image holography with extended sources Patent
[NASA-CASE-ERC-10019] c 16 N71-15551
Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

- Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
Multiple image storing system for high speed projectile holography
[NASA-CASE-MFS-20596] c 14 N72-17324

Phototropic composition of matter

- [NASA-CASE-XGS-03736] c 14 N72-22443
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551

PHOTOGRAPHY

- System for forming a quadrified image comprising angularly related fields of view of a three dimensional object
[NASA-CASE-NPO-14219-1] c 74 N81-17886
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874

PHOTOIONIZATION

- A multichannel photoionization chamber for absorption analysis Patent
[NASA-CASE-ERC-10044-1] c 14 N71-27090

PHOTOLYSIS

- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470

PHOTOMAPPING

- Window defect planar mapping technique
[NASA-CASE-MS-C-19442-1] c 74 N77-10899

PHOTOMASKS

- Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MS-C-18107-1] c 27 N81-25209

PHOTOMECHANICAL EFFECT

- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400

PHOTOMETERS

- Interferometer direction sensor Patent
[NASA-CASE-NPO-10320] c 14 N71-17655
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Light position locating system Patent
[NASA-CASE-XNP-01059] c 23 N71-21821
Fluid flow meter with comparator reference means Patent
[NASA-CASE-XGS-01331] c 14 N71-22996
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Chromato-fluorographic drug detector --- device for detecting and recording fluorescent properties of materials
[NASA-CASE-ARC-10633-1] c 25 N74-26947
The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

PHOTOMICROGRAPHY

- Stereo photomicrography system
[NASA-CASE-LAR-10176-1] c 14 N72-20380
- Hand-held photomicroscope
[NASA-CASE-ARC-10468-1] c 14 N73-33361
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594

PHOTOMULTIPLIER TUBES

- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Electronic divider and multiplier using photocells Patent
[NASA-CASE-XFR-05637] c 09 N71-19480
- Coincidence apparatus for detecting particles
[NASA-CASE-XLA-07813] c 14 N72-17328
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
- Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

PHOTON BEAMS

- Apparatus for photon excited catalysis
[NASA-CASE-NPO-13566-1] c 25 N77-32255

PHOTON-ELECTRON INTERACTION

- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767

PHOTONS

- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] c 35 N84-33767
- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

PHOTOSENSITIVITY

- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Apparatus for calibrating an image dissector tube
[NASA-CASE-MFS-22208-1] c 33 N75-26244
- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

PHOTOTHERMAL CONVERSION

- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

PHOTOTRANSISTORS

- Phototransistor imaging system
[NASA-CASE-MFS-20809] c 23 N73-13660
- Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235
- Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PHOTOTROPISM

- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443

PHOTOVISCOELASTICITY

- Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645

PHOTOVOLTAIC CELLS

- Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-XNP-04180] c 07 N69-39736
- Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158
- Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482

Method of construction of a multi-cell solar array

- [NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311
- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
- Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
- Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
- Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760

PHOTOVOLTAIC CONVERSION

- Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019

PHOTOVOLTAIC EFFECT

- System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Use of thin film light detector
[NASA-CASE-NPO-11432-2] c 35 N74-15090
- Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441

PHTHALATES

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

PHTHALOCYANIN

- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
- Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348
- Metal (2,4,4',4') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

PHYSICAL EXERCISE

- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Tilting table for ergometer and for other biomedical devices
[NASA-CASE-MFS-21010-1] c 05 N73-30078
- Manual actuator --- for spacecraft exercising machines
[NASA-CASE-MFS-21481-1] c 37 N74-18127
- Therapeutic hand exerciser
[NASA-CASE-LAR-11667-1] c 52 N76-19785

PHYSICAL PROPERTIES

- Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099
- System for monitoring physical characteristics of fluids
[NASA-CASE-NPO-15400-1] c 34 N83-31993

PHYSIOLOGICAL EFFECTS

- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119

PHYSIOLOGICAL TESTS

- Vibrophonocardiograph Patent
[NASA-CASE-XFR-07172] c 05 N71-27234
- Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757

PHYSIOLOGY

- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Method of detecting and counting bacteria
[NASA-CASE-GSC-11917-2] c 51 N76-29891

PIERCING

- Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

PIEZOELECTRIC CRYSTALS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559

PIEZOELECTRIC TRANSDUCERS

- Force transducer Patent
[NASA-CASE-XAC-01101] c 14 N70-41957
- Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
[NASA-CASE-NPO-10144] c 14 N71-17701
- Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
- Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
- Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671

PIEZOELECTRICITY

- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Piezoelectric composite materials
[NASA-CASE-LEW-12582-1] c 76 N83-34796

PIEZORESISTIVE TRANSDUCERS

- Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
- Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490

PIGMENTS

- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

PILOT TRAINING

- Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748
- Kinesthetic control simulator --- for pilot training
[NASA-CASE-LAR-10276-1] c 09 N75-15662

PILOTS (PERSONNEL)

- System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483

PINCH EFFECT

- Toggle mechanism for pinching metal tubes
[NASA-CASE-GSC-12274-1] c 37 N79-28550

PINHOLE CAMERAS

- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

PINS

- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
- Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

PINTLES

- Metal valve pintle with encapsulated elastomeric body Patent
[NASA-CASE-MSC-12116-1] c 15 N71-17648

PIPE FLOW

- Flat-plate heat pipe
[NASA-CASE-GSC-11998-1] c 34 N77-32413
- Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
- Energy efficient continuous flow ash lockhopper
[NASA-CASE-NPO-16985-1-CU] c 31 N88-24814

PIPELINES

- Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937

PIPELINING (COMPUTERS)

- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Neighborhood comparison operator
[NASA-CASE-NPO-16464-1-CU] c 60 N86-24224
- Real time pipelined system for forming the sum of products in the processing of video data
[NASA-CASE-NPO-16462-1-CU] c 60 N88-24169
- Programmable pipelined image processor
[NASA-CASE-NPO-16461-1-CU] c 60 N89-26400

PIPES (TUBES)

- Device for determining the accuracy of the flare on a flared tube
[NASA-CASE-XKS-03495] c 14 N69-39785

Piping arrangement through a double chamber structure
 [NASA-CASE-XNP-08882] c 15 N69-39935
 Foldable conduit Patent
 [NASA-CASE-XLE-00620] c 32 N70-41579
 Thermobulb mount Patent
 [NASA-CASE-NPO-10158] c 33 N71-16356
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114] c 15 N71-17650
 Sealed separable connection Patent
 [NASA-CASE-NPO-10064] c 15 N71-17693
 Electrical switching device Patent
 [NASA-CASE-NPO-10037] c 09 N71-19610
 Tube dimpling tool Patent
 [NASA-CASE-XMS-06876] c 15 N71-21536
 Plasma device feed system Patent
 [NASA-CASE-XLE-02902] c 25 N71-21694
 Spin forming tubular elbows Patent
 [NASA-CASE-XMF-01083] c 15 N71-22723
 Portable milling tool Patent
 [NASA-CASE-XMF-03511] c 15 N71-22799
 Internal flare angle gauge Patent
 [NASA-CASE-XMF-04415] c 14 N71-24693
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-3] c 15 N71-24865
 Weld preparation machine Patent
 [NASA-CASE-XKS-07953] c 15 N71-26134
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
 Collapsible antenna boom and transmission line Patent
 [NASA-CASE-MFS-20068] c 07 N71-27191
 Tube fabricating process
 [NASA-CASE-LAR-10203-1] c 15 N72-16330
 Torsional disconnect unit
 [NASA-CASE-NPO-10704] c 15 N72-20445
 Open type urine receptacle
 [NASA-CASE-MSC-12324-1] c 05 N72-22093
 Method for measuring cutaneous sensory perception
 [NASA-CASE-MSC-13609-1] c 05 N72-25122
 Low mass truss structure
 [NASA-CASE-LAR-10546-1] c 11 N72-25287
 Honeycomb panels formed of minimal surface periodic tubule layers
 [NASA-CASE-ERC-10364] c 18 N72-25540
 Honeycomb core structures of minimal surface tubule sections
 [NASA-CASE-ERC-10363] c 18 N72-25541
 Method for distillation of liquids
 [NASA-CASE-XNP-08124-2] c 06 N73-13129
 Cable restraint
 [NASA-CASE-LAR-10129-1] c 15 N73-25512
 Method of fabricating a twisted composite superconductor
 [NASA-CASE-LEW-11015] c 26 N73-32571
 Open tube guideway for high speed air cushioned vehicles
 [NASA-CASE-LAR-10256-1] c 85 N74-34672
 Method for fabricating a mass spectrometer inlet leak
 [NASA-CASE-GSC-12077-1] c 35 N77-24455
 Precision heat forming of tetrafluoroethylene tubing
 [NASA-CASE-MSC-18430-1] c 37 N82-24491
 Open ended tubing cutters
 [NASA-CASE-MSC-18538-1] c 37 N82-26672
 Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
 [NASA-CASE-LEW-13107-2] c 52 N84-23095
 Tubing and cable cutting tool
 [NASA-CASE-LAR-12786-1] c 37 N84-28085
 Fluid leak indicator
 [NASA-CASE-MSC-20783-1] c 35 N86-20756
 Method of repairing hidden leaks in tubes
 [NASA-CASE-MFS-19796-1] c 37 N86-32736
 Self-contained, single-use hose and tubing cleaning module
 [NASA-CASE-MSC-20857-1] c 37 N87-17035
 Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture
 [NASA-CASE-LAR-13562-1] c 24 N87-18613
 Liquid seeding atomizer
 [NASA-CASE-ARC-11631-1] c 34 N87-21255
 Tube coupling device
 [NASA-CASE-MFS-25964-2] c 37 N87-22977
 Tapered, tubular polyester fabric
 [NASA-CASE-MSC-21082-1] c 27 N87-29672
 Tool and process for miniature explosive joining of tubes
 [NASA-CASE-LAR-13662-1] c 37 N88-14359
PISTON ENGINES
 Stirling cycle engine and refrigeration systems
 [NASA-CASE-NPO-13613-1] c 37 N76-29590
 Hot gas engine with dual crankshafts
 [NASA-CASE-NPO-14221-1] c 37 N81-25370

Solar engine
 [NASA-CASE-LAR-12148-1] c 44 N82-24640
 Stirling cycle cryogenic cooler
 [US-PATENT-4,389,849] c 44 N83-28574
PISTONS
 Automatic pump Patent
 [NASA-CASE-XNP-04731] c 15 N71-24042
 Firefly pump-metering system
 [NASA-CASE-GSC-10218-1] c 15 N72-21465
 Collapsible pistons
 [NASA-CASE-MSC-13789-1] c 11 N73-32152
 Airflow control system for supersonic inlets
 [NASA-CASE-LEW-11188-1] c 02 N74-20646
 Free-piston regenerative hot gas hydraulic engine
 [NASA-CASE-LEW-12274-1] c 37 N80-31790
 Power control for hot gas engines
 [NASA-CASE-NPO-14220-1] c 37 N81-14318
 Multiple plate hydrostatic viscous damper
 [NASA-CASE-LEW-12445-1] c 37 N81-22360
 Gas-to-hydraulic power converter
 [NASA-CASE-MSC-18794-1] c 44 N83-14693
 Centrifugal-reciprocating compressor
 [NASA-CASE-NPO-14597-2] c 37 N84-28081
 Lightweight piston
 [NASA-CASE-LAR-13150-1] c 24 N87-27742
 Composite piston
 [NASA-CASE-LAR-13435-1] c 37 N88-23981
PITCH (INCLINATION)
 Reverse pitch fan with divided splitter
 [NASA-CASE-LEW-12760-1] c 07 N77-17059
 Velocity vector control system augmented with direct lift control
 [NASA-CASE-LAR-12268-1] c 08 N81-24106
 Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
 [NASA-CASE-LAR-12562-1] c 08 N81-26152
 Swashplate control system
 [NASA-CASE-ARC-11633-1] c 08 N87-23631
PITCHING MOMENTS
 High lift, low pitching moment airfoils
 [NASA-CASE-LAR-13215-1] c 02 N89-14224
PIVOTS
 Tension measurement device Patent
 [NASA-CASE-XMS-04545] c 15 N71-22878
 Unidirectional flexural pivot
 [NASA-CASE-GSC-12622-1] c 37 N84-12492
 Joint for deployable structures
 [NASA-CASE-NPO-16038-1] c 37 N86-19605
 Thumb-actuated two-axis controller
 [NASA-CASE-ARC-11372-1] c 08 N86-27288
PLANAR STRUCTURES
 Window defect planar mapping technique
 [NASA-CASE-MSC-19442-1] c 74 N77-10899
 Method and apparatus for preparing multiconductor cable with flat conductors
 [NASA-CASE-MFS-10946-1] c 31 N79-21226
 High voltage planar multijunction solar cell
 [NASA-CASE-LEW-13400-1] c 44 N82-31764
PLANE WAVES
 Multiple reflection conical microwave antenna
 [NASA-CASE-NPO-11661] c 07 N73-14130
PLANETARY ATMOSPHERES
 Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
 [NASA-CASE-XAC-08494] c 30 N71-15990
 Flow field simulation Patent
 [NASA-CASE-LAR-11138] c 12 N71-20436
 Ablation sensor Patent
 [NASA-CASE-XLA-01791] c 14 N71-22991
PLANETARY GRAVITATION
 Impact simulator Patent
 [NASA-CASE-XLA-00493] c 11 N70-34786
 Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
 [NASA-CASE-XNP-00708] c 14 N70-35394
PLANETARY LANDING
 Parachute glider Patent
 [NASA-CASE-XLA-00898] c 02 N70-36804
 Omnidirectional multiple impact landing system Patent
 [NASA-CASE-XLA-09881] c 31 N71-16085
PLANETARY ORBITS
 Flexible foam erectable space structures Patent
 [NASA-CASE-XLA-00686] c 31 N70-34135
 Erectable modular space station Patent
 [NASA-CASE-XLA-00678] c 31 N70-34296
PLANETARY RADIATION
 Attitude sensor for space vehicles Patent
 [NASA-CASE-XLA-00793] c 21 N71-22880
PLANETARY SURFACES
 Method and apparatus for mapping planets
 [NASA-CASE-NPO-11001] c 07 N72-21118
PLANTS (BOTANY)
 Rotary plant growth accelerating apparatus --- weightlessness
 [NASA-CASE-ARC-10722-1] c 51 N75-25503

Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
 [NASA-CASE-NPO-14315-1] c 27 N81-17261
 Enhancement of in vitro guayule propagation
 [NASA-CASE-NPO-15213-1] c 51 N83-17045
PLASMA ACCELERATION
 Apparatus for increasing ion engine beam density Patent
 [NASA-CASE-XLE-00519] c 28 N70-41576
 Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
 [NASA-CASE-MFS-20589] c 25 N72-32688
PLASMA ACCELERATORS
 Plasma accelerator Patent
 [NASA-CASE-XLA-00675] c 25 N70-33267
 Continuously operating induction plasma accelerator Patent
 [NASA-CASE-XLA-01354] c 25 N70-36946
 Crossed-field MHD plasma generator/ accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562
 Self-repeating plasma generator having communicating annular and linear arc discharge passages Patent
 [NASA-CASE-XLA-03103] c 25 N71-21693
 Magnetically controlled plasma accelerator Patent
 [NASA-CASE-XLA-00327] c 25 N71-29184
 Two stage light gas-plasma projectile accelerator
 [NASA-CASE-MFS-22287-1] c 75 N76-14931
PLASMA ARC WELDING
 ARC length control for plasma welding
 [NASA-CASE-MSC-20900-1] c 37 N88-30131
PLASMA CONTROL
 Superconductive magnetic-field-trapping device
 [NASA-CASE-XNP-01185] c 26 N73-28710
 Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625
PLASMA CYLINDERS
 Plasma fluidic hybrid display Patent
 [NASA-CASE-ERC-10100] c 09 N71-33519
PLASMA DENSITY
 Focussing system for an ion source having apertured electrodes Patent
 [NASA-CASE-XNP-03332] c 09 N71-10618
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156
 Hollow cathode apparatus
 [NASA-CASE-NPO-15560-1] c 33 N85-21491
PLASMA DIAGNOSTICS
 Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
 [NASA-CASE-XLE-00690] c 25 N69-39884
 Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
 [NASA-CASE-XAC-05695] c 25 N71-16073
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156
 Trochoidal analysis of scattered electrons in a merged electron-ion beam geometry
 [NASA-CASE-NPO-16789-1-CU] c 72 N89-29169
PLASMA DYNAMICS
 Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
 [NASA-CASE-XAC-05695] c 25 N71-16073
 Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625
PLASMA ENGINES
 Plasma device feed system Patent
 [NASA-CASE-XLE-02902] c 25 N71-21694
 Hybrid plume plasma rocket
 [NASA-CASE-MSC-20476-2] c 20 N89-25279
PLASMA GENERATORS
 Method and apparatus for producing a plasma Patent
 [NASA-CASE-XLA-00147] c 25 N70-34661
 Crossed-field MHD plasma generator/ accelerator Patent
 [NASA-CASE-XLA-03374] c 25 N71-15562
 Coaxial high density, hypervelocity plasma generator and accelerator with ionizable metal disc
 [NASA-CASE-MFS-20589] c 25 N72-32688
 Self-energized plasma compressor --- for compressing plasma discharged from coaxial plasma generator
 [NASA-CASE-MFS-22145-1] c 75 N75-13625
 Self-energized plasma compressor
 [NASA-CASE-MFS-22145-2] c 75 N76-17951
 Continuous plasma laser --- method and apparatus for producing intense, coherent, monochromatic light from low temperature plasma
 [NASA-CASE-XNP-04167-3] c 36 N77-19416

PLASMA GUNS

- Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718

PLASMA JETS

- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Plasma cleaning device --- designed for high vacuum environments
[NASA-CASE-MFS-22906-1] c 75 N78-27913

PLASMA LAYERS

- Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284

PLASMA POTENTIALS

- Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

PLASMA PROBES

- Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747

PLASMA PROPULSION

- Method of making dished ion thruster grids
[NASA-CASE-LEW-11694-1] c 20 N75-18310
- Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
- Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279

PLASMA RADIATION

- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563
- Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753

PLASMA SHEATHS

- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Means for measuring the electron density gradients of the plasma sheath formed around a space vehicle Patent
[NASA-CASE-XLA-06232] c 25 N71-20563

PLASMA SPRAYING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
- Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Plasma gun with coaxial powder feed and adjustable cathode
[NASA-CASE-LEW-14901-1] c 75 N90-10718
- Improved process for HIP canning of composites
[NASA-CASE-LEW-14990-1-CU] c 24 N90-15147

PLASMA TEMPERATURE

- Measurement of plasma temperature and density using radiation absorption
[NASA-CASE-ARC-10598-1] c 75 N74-30156

PLASMA-ELECTROMAGNETIC INTERACTION

- Plasma igniter for internal combustion engine
[NASA-CASE-NPO-13828-1] c 37 N79-11405

PLASMAS (PHYSICS)

- Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent
[NASA-CASE-XAC-05695] c 25 N71-16073
- Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] c 33 N85-21491
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

PLASMONS

- Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
- Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

PLASTIC COATINGS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

PLASTIC DEFORMATION

- Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170

PLASTIC TAPES

- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472

PLASTICIZERS

- Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
- Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
- Method of bonding plasticized elastomer to metal and articles produced thereby
[NASA-CASE-MFS-25181-1] c 27 N82-24340
- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708

PLASTICS

- Method for forming plastic materials Patent
[NASA-CASE-XMS-05516] c 15 N71-17803
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
- Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117
- Molding apparatus --- for thermosetting plastic compositions
[NASA-CASE-LAR-10489-2] c 31 N74-32920
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

PLATENS

- Compression test apparatus
[NASA-CASE-MSC-18723-1] c 35 N83-21312

PLATES

- Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

PLATES (STRUCTURAL MEMBERS)

- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Microwave dichroic plate
[NASA-CASE-GSC-12171-1] c 33 N79-28416
- Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
- Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

PLATFORMS

- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

PLATING

- Selective plating of etched circuits without removing previous plating Patent
[NASA-CASE-XGS-03120] c 15 N71-24047
- Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360
- Scanning nozzle plating system --- for etching or plating metals on substrates without masking
[NASA-CASE-NPO-11758-1] c 31 N74-23065
- Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
- PLATINUM**
- Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
- Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368

PLATINUM ALLOYS

- Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-19394-1] c 35 N83-35338

PLAYBACKS

- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

PLENUM CHAMBERS

- Air cushion lift pad Patent
[NASA-CASE-MFS-14685] c 31 N71-15689
- Gas filter mounting structure
[NASA-CASE-MSC-12297] c 14 N72-23457
- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] c 71 N84-28568

PLETHYSMOGRAPHY

- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Apparatus for determining changes in limb volume
[NASA-CASE-MSC-18759-1] c 52 N83-27578

PLOTTERS

- Automated equipotential plotter
[NASA-CASE-NPO-11134] c 09 N72-21246
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

PLOTTING

- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

PLUG NOZZLES

- Cascade plug nozzle --- for jet noise reduction
[NASA-CASE-LAR-11674-1] c 07 N76-18117
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873

PLUGS

- Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
- Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
- Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
- High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494
- Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841

PNEUMATIC CONTROL

- Pneumatic system for controlling and actuating pneumatic cyclic devices
[NASA-CASE-XMS-04843] c 03 N69-21469
- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Foot pedal operated fluid type exercising device
[NASA-CASE-MSC-11561-1] c 05 N73-32014
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465

PNEUMATIC EQUIPMENT

- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
- Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
- Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Pneumatic load compensating or controlling system
[NASA-CASE-ARC-10907-1] c 37 N75-32465
- Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346

- Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-25429-1] c 18 N86-20469

POINT SOURCES

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

POINTING CONTROL SYSTEMS

- Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399
Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424
Magnetic suspension and pointing system --- on a carrier vehicle
[NASA-CASE-LAR-11889-1] c 35 N79-26372
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520

POINTS (MATHEMATICS)

- Method of and apparatus for generating an interstitial point in a data stream having an even number of data points
[NASA-CASE-MFS-25319-1] c 60 N85-33701

POLAR ORBITS

- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

POLARIMETERS

- Polarimeter for transient measurement Patent
[NASA-CASE-XNP-08883] c 23 N71-16101
Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

POLARIMETRY

- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

POLARITY

- Positive dc to negative dc converter Patent
[NASA-CASE-XMF-08217] c 03 N71-23239
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109

POLARIZATION (WAVES)

- System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Multifrequency broadband polarized horn antenna
[NASA-CASE-NPO-14588-1] c 32 N81-25278
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381

POLARIZED ELECTROMAGNETIC RADIATION

- Antenna beam-shaping apparatus Patent
[NASA-CASE-XNP-00611] c 09 N70-35219
Parabolic reflector horn feed with spillover correction Patent
[NASA-CASE-XNP-00540] c 09 N70-35382
Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904

POLARIZED LIGHT

- Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

POLARIZED RADIATION

- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

POLARIZERS

- Partial polarizer filter
[NASA-CASE-GSC-12225-1] c 74 N79-14891
Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647

POLES

- Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038

POLISHING

- Conforming polisher for aspheric surface of revolution Patent
[NASA-CASE-XGS-02884] c 15 N71-22705
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149

POLLUTION CONTROL

- System for minimizing internal combustion engine pollution emission
[NASA-CASE-NPO-13402-1] c 37 N76-18457
Combustion engine --- for air pollution control
[NASA-CASE-NPO-13671-1] c 37 N77-31497
Supercritical fuel injection system
[NASA-CASE-LEW-12990-1] c 07 N81-29129
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] c 35 N84-17555

POLLUTION MONITORING

- Fluorescence detector for monitoring atmospheric pollutants
[NASA-CASE-NPO-13231-1] c 45 N75-27585
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Indicator providing continuous indication of the presence of a specific pollutant in air
[NASA-CASE-NPO-13474-1] c 45 N76-21742
Method for detecting pollutants --- through chemical reactions and heat treatment
[NASA-CASE-LAR-11405-1] c 45 N76-31714
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

POLYAMIDE RESINS

- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-18074-1] c 27 N80-26446
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Fire and heat resistant laminating resins based on maleimide and citraconimide substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

POLYBENZIMIDAZOLE

- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232

POLYBUTADIENE

- New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

POLYCARBONATES

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

POLYCRYSTALS

- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111

POLYESTERS

- Novel polycarboxylic prepolymeric materials and polymers thereof Patent
[NASA-CASE-NPO-10596] c 06 N71-25929
Apparatus for forming drive belts
[NASA-CASE-NPO-13205-1] c 31 N74-32917
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

- Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYETHER RESINS

- Polyurethanes from fluoroalkyl propylene glycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100
Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Phenoxyl resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Polyether-polyester graft copolymer
[NASA-CASE-LAR-13447-1] c 27 N88-18725

POLYIMIDE RESINS

- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
Tackifier for addition polyimides containing monoethylphthalate
[NASA-CASE-LAR-12642-1] c 27 N81-29229
Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] c 27 N84-27885
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-2] c 27 N85-21347
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Chemical control of nadimide cure temperature and rate
[NASA-CASE-LEW-13770-2] c 25 N85-28982
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334

POLYIMIDES

- Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215

- Catalysts for polyimide foams from aromatic isocyanates and aromatic dianhydrides --- flame retardant foams
[NASA-CASE-ARC-11107-1] c 25 N80-16116
- Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
- Method for preparing addition type polyimide prepreps
[NASA-CASE-LAR-12054-2] c 27 N81-14078
- Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
- Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
- Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
- Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft
[NASA-CASE-LAR-12775-2] c 27 N85-21349
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376
- Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Poly(carbonate-imide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474
- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
- Novel polyimide compositions based on 4,4'-isophthaloyldiphthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- POLYISOBUTYLENE**
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- POLYISOPRENES**
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045
- POLYMER CHEMISTRY**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Synthesis of siloxane-containing epoxy polymers
[NASA-CASE-MFS-13994-1] c 06 N71-11240
- Apparatus for testing polymeric materials
[NASA-CASE-XNP-09699] c 06 N71-24607
- Polyimide adhesives
[NASA-CASE-LAR-11397-1] c 27 N75-29263
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Polyimide adhesives
[NASA-CASE-LAR-12181-1] c 27 N78-17205
- Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
- Fluorine-containing polyformals
[NASA-CASE-XMF-06900-1] c 27 N79-21191
- In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
- Bifunctional monomers having terminal oxime and cyano or amide groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256
- In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257
- Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Preparation of crosslinked 1,2,4-oxadiazole polymer
[NASA-CASE-ARC-11253-2] c 27 N82-24338
- Preparation of perfluorinated 1,2,4-oxadiazoles
[NASA-CASE-ARC-11267-2] c 23 N82-28353
- Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] c 25 N85-30039
- Amine terminated bisapartimide polymer
[NASA-CASE-ARC-11421-2] c 27 N86-31726
- Aminophenoxycyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469
- The 1-((diorganooxy phosphonyl) methyl)-2,4- and -2,6-diamino benzenes and their derivatives
[NASA-CASE-ARC-11425-2] c 23 N87-28605
- Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404
- Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300
- POLYMER MATRIX COMPOSITES**
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
- Light weight polymer matrix composite material
[NASA-CASE-LEW-14734-1] c 24 N89-23623
- Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
- Semiinterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
- POLYMERIC FILMS**
Processing for producing a sterilized instrument
[NASA-CASE-XNP-09763] c 14 N71-20461
- Hydraulic casting of liquid polymers
[NASA-CASE-XNP-07659] c 06 N71-22975
- Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477
- Apparatus and method for skin packaging articles
[NASA-CASE-MFS-20855] c 15 N73-27405
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160
- Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
- Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396
- Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
- High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847
- Water-absorbing capacitor system for measuring relative humidity
[NASA-CASE-NPO-16544-1-CU] c 35 N87-22953
- Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206
- Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717
- POLYMERIZATION**
New polymers of perfluorobutadiene and method of manufacture Patent application
[NASA-CASE-NPO-10863] c 06 N70-11251
- Method of polymerizing perfluorobutadiene Patent application
[NASA-CASE-NPO-10447] c 06 N70-11252
- Process for interfacial polymerization of pyromellitic dianhydride and 1,2,4, 5-tetraamino-benzene Patent
[NASA-CASE-XLA-03104] c 06 N71-11235
- Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238
- Direct synthesis of polymeric schiff bases from two amines and two aldehydes Patent
[NASA-CASE-XMF-08655] c 06 N71-11239
- Azine polymers and process for preparing the same Patent
[NASA-CASE-XMF-08656] c 06 N71-11242
- Synthesis of polymeric schiff bases by reaction of acetals and amine compounds Patent
[NASA-CASE-XMF-08652] c 06 N71-11243
- Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717
- Reaction of fluorine with polyperfluoropolyenes
[NASA-CASE-NPO-10862] c 06 N72-22107
- Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
[NASA-CASE-MFS-20979] c 06 N72-25151
- Polymers of perfluorobutadiene and method of manufacture
[NASA-CASE-NPO-10863-2] c 06 N72-25152
- Fluorohydroxy ethers
[NASA-CASE-MFS-10507] c 06 N73-30101
- Highly fluorinated polymers
[NASA-CASE-MFS-11492] c 06 N73-30102
- Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Utilization of oxygen difluoride for syntheses of fluoropolymers
[NASA-CASE-NPO-12061-1] c 27 N76-16228
- Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
- Polymeric foams from cross-linkable poly-n-arylenebenzimidazoles
[NASA-CASE-ARC-11008-1] c 27 N78-31232
- Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-11215
- Preparation of heterocyclic block copolymer omega-diamidoximes
[NASA-CASE-ARC-11060-1] c 27 N79-22300
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307

Mixed diamines for lower melting addition polyimide preparation and utilization
[NASA-CASE-LAR-12054-1] c 27 N79-33316

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

Perfluoroalkyl polytriazines containing pendent iododifluoromethyl groups
[NASA-CASE-ARC-11241-1] c 25 N81-14016

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Process for the preparation of fluorine containing crosslinked elastomeric polytriazine and product so produced
[NASA-CASE-ARC-11248-1] c 27 N81-17259

The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262

Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242

Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244

Carboranylcyctriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322

Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884

Phthalocyanine polymers
[NASA-CASE-ARC-11413-1] c 27 N85-21348

Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

Maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] c 23 N86-19376

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

Process for crosslinking methylene-containing aromatic polymers with ionizing radiation
[NASA-CASE-LAR-13448-1] c 27 N86-24840

Laminate comprising fibers embedded in cured amine terminated bis-imide
[NASA-CASE-ARC-11421-3] c 24 N86-25416

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Polymer of phosphonylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1,2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984

Polynamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667

Low dielectric fluorinated poly(phenylene ether keytone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

Graphite fluoride fiber polymer composite material
[NASA-CASE-LEW-14472-1] c 24 N89-14259

Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

Molecules with enhanced electronic polarizabilities based on defect-like states in conjugated polymers
[NASA-CASE-NPO-17633-1-CU] c 27 N90-15263

Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949

Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950

New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

POLYMERS

Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Aromatic diamine-aromatic dialdehyde high molecular weight Schiff base polymers prepared in a monofunctional Schiff base Patent
[NASA-CASE-XMF-03074] c 06 N71-24740

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

Epoxy-aziridine polymer product Patent
[NASA-CASE-NPO-10701] c 06 N71-28620

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147

Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764

Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156

Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315

Oil and fat absorbing polymers
[NASA-CASE-NPO-11609-2] c 27 N77-31308

Method for separating biological cells --- suspended in aqueous polymer systems
[NASA-CASE-MFS-23883-1] c 51 N80-16715

Chelate-modified polymers for atmospheric gas chromatography
[NASA-CASE-ARC-11154-1] c 25 N80-23383

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

Carboranymethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] c 27 N84-22750

Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] c 27 N85-34282

Polyarylene ethers with improved properties
[NASA-CASE-LAR-13555-1] c 23 N86-32526

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

POLYMETHYL METHACRYLATE

Durable antistatic coating for polymethylmethacrylate
[NASA-CASE-NPO-13867-1] c 27 N78-14164

Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854

POLYPHENYL ETHER

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Low dielectric fluorinated poly(phenylene ether keytone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

POLYPHENYLS

Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

Low dielectric fluorinated poly(phenylene ether keytone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496

Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

POLYQUINOXALINES

Polyphenylquinoxalines containing alkylenedioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337

POLYSACCHARIDES

Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236

POLYTETRAFLUOROETHYLENE

Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404

Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044

POLYURETHANE FOAM

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135

Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739

Flexible fire retardant polyisocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814

Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310

Mixing insert for foam dispensing apparatus
[NASA-CASE-MFS-20607-1] c 37 N76-19436

Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

POLYURETHANE RESINS

Hydroxy terminated perfluoro ethers Patent
[NASA-CASE-NPO-10768] c 06 N71-27254

Polyurethane resins from hydroxy terminated perfluoro ethers
[NASA-CASE-NPO-10768-2] c 06 N72-27144

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151

Polyurethanes of fluorine containing polycarbonates
[NASA-CASE-MFS-10512] c 06 N73-30099

Polyurethanes from fluoroalkyl propyleneglycol polyethers
[NASA-CASE-MFS-10506] c 06 N73-30100

Fluorine containing polyurethane
[NASA-CASE-MFS-10509] c 06 N73-30103

Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-1] c 06 N73-33076

Flame retardant spandex type polyurethanes
[NASA-CASE-MSC-14331-2] c 27 N78-17213

POLYVINYL ALCOHOL

In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481

Method of cross-linking polyvinyl alcohol and other water soluble resins
[NASA-CASE-LEW-13103-1] c 27 N80-32516

In-situ cross linking of polyvinyl alcohol --- application to battery separator films
[NASA-CASE-LEW-13135-2] c 27 N81-24257

Polyvinyl alcohol battery separator containing inert filler --- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615

Cross-linked polyvinyl alcohol and method of making same
[NASA-CASE-LEW-13101-2] c 23 N81-29160

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

PONDS

Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474

PORCELAIN

Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160

POROSITY

- Process for making sheets with parallel pores of uniform size
 [NASA-CASE-GSC-10984-1] c 37 N75-26371
 Krypton based adsorption type cryogenic refrigerator
 [NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
 Porous plug for reducing orifice induced pressure error in airfoils
 [NASA-CASE-LAR-13569-1] c 35 N89-12841
 Method for maintaining precise suction strip porosities
 [NASA-CASE-LAR-13638-1] c 31 N90-19427

POROUS MATERIALS

- Method of producing refractory bodies having controlled porosity Patent
 [NASA-CASE-LEW-10393-1] c 17 N71-15468
 Multilayer porous ionizer Patent
 [NASA-CASE-XNP-04338] c 17 N71-23046
 Fluid lubricant system Patent
 [NASA-CASE-XNP-03972] c 15 N71-23048
 Method and device for detecting voids in low density material Patent
 [NASA-CASE-MFS-20044] c 14 N71-28993
 Fabrication of controlled-porosity metals Patent
 [NASA-CASE-XNP-04339] c 17 N71-29137
 Compressible biomedical electrode
 [NASA-CASE-MSC-13648] c 05 N72-27103
 Porous electrode comprising a bonded stack of pieces of corrugated metal foil
 [NASA-CASE-GSC-11368-1] c 09 N73-32108
 Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
 [NASA-CASE-GSC-11367-1] c 44 N74-19692
 Fluid valve assembly
 [NASA-CASE-MSC-12731-1] c 37 N78-25426
 Heat exchanger and method of making --- bonding rocket chambers with a porous metal matrix
 [NASA-CASE-LEW-12441-1] c 34 N79-13289
 Composite seal for turbomachinery
 [NASA-CASE-LEW-12131-3] c 37 N82-19540
 Densification of porous refractory substrates --- space shuttle orbiter tiles
 [NASA-CASE-MSC-18737-1] c 24 N83-13171
 Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
 [NASA-CASE-MSC-18736-1] c 24 N83-13172
 Advanced inorganic separators for alkaline batteries and method of making the same
 [NASA-CASE-LEW-13171-2] c 44 N83-32176
 Water-absorbing capacitor system for measuring relative humidity
 [NASA-CASE-NPO-16544-1-CU] c 35 N87-22953

POROUS PLATES

- Method of producing porous tungsten ionizers for ion rocket engines Patent
 [NASA-CASE-XLE-00455] c 28 N70-38197

PORPHYRINS

- Method and apparatus for eliminating luminol interference material
 [NASA-CASE-MSC-16260-1] c 51 N80-16714

PORTABLE EQUIPMENT

- Split welding chamber Patent
 [NASA-CASE-LEW-11531] c 15 N71-14932
 Portable superclean air column device Patent
 [NASA-CASE-XMF-03212] c 15 N71-22721
 Weld preparation machine Patent
 [NASA-CASE-XKS-07953] c 15 N71-26134
 Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
 Cryogenic cooling system Patent
 [NASA-CASE-NPO-10467] c 23 N71-26654
 Boring bar drive mechanism Patent
 [NASA-CASE-XLA-03661] c 15 N71-33518
 One hand backpack harness
 [NASA-CASE-LAR-10102-1] c 05 N72-23085
 Bacterial contamination monitor
 [NASA-CASE-GSC-10879-1] c 14 N72-25413
 Self-recording portable soil penetrometer
 [NASA-CASE-MFS-20774] c 14 N73-19420
 Hand-held photomicroscope
 [NASA-CASE-ARC-10468-1] c 14 N73-33361
 System for enhancing tool-exchange capabilities of a portable wrench
 [NASA-CASE-MFS-22283-1] c 37 N75-33395
 Method of peening and portable peening gun
 [NASA-CASE-MFS-23047-1] c 37 N76-18454
 Portable electrophoresis apparatus using minimum electrolyte
 [NASA-CASE-NPO-13274-1] c 25 N79-10163
 Portable heatable container
 [NASA-CASE-NPO-14237-1] c 44 N80-20808
 Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
 [NASA-CASE-FRC-10113-1] c 33 N80-26599
 Portable appliance security apparatus
 [NASA-CASE-GSC-12399-1] c 33 N81-25299

- Dual-beam skin friction interferometer
 [NASA-CASE-ARC-11354-1] c 74 N83-21949
 Two-dimensional scanner apparatus --- flaw detector in small flat plates
 [NASA-CASE-MFS-25687-1] c 35 N84-22928
 Portable reflectance spectrometer
 [NASA-CASE-NPO-13556-1] c 35 N84-33766
 Portable pallet weighing apparatus
 [NASA-CASE-GSC-12789-1] c 35 N85-20294
 Portable remote laser sensor for methane leak detection
 [NASA-CASE-NPO-15790-1] c 36 N85-21631
 Portable 90 degree proof loading device
 [NASA-CASE-MSC-20250-1] c 35 N86-19581
 Acoustic guide for noise-transmission testing of aircraft
 [NASA-CASE-LAR-13111-1-CU] c 71 N87-21652

PORTABLE LIFE SUPPORT SYSTEMS

- Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
 [NASA-CASE-MSC-16182-1] c 54 N80-10799
PORTS (OPENINGS)
 Evacuation port seal Patent
 [NASA-CASE-XMF-03290] c 15 N71-23256
 Safety shield for vacuum/pressure chamber viewing port
 [NASA-CASE-GSC-12513-1] c 31 N81-19343

POSITION (LOCATION)

- Position location system and method Patent
 [NASA-CASE-GSC-10087-2] c 21 N71-13958
 Position location and data collection system and method Patent
 [NASA-CASE-GSC-10083-1] c 30 N71-16090
 Emergency escape system Patent
 [NASA-CASE-XKS-07814] c 15 N71-27067
 Position location system and method
 [NASA-CASE-GSC-10087-3] c 07 N72-12080
 Location identification system
 [NASA-CASE-ERC-10324] c 07 N72-25173
 Cosmic dust or other similar outer space particles impact location detector
 [NASA-CASE-GSC-11291-1] c 25 N72-33696
 Collimator of multiple plates with axially aligned identical random arrays of apertures
 [NASA-CASE-MFS-20546-2] c 14 N73-30389
 Measuring probe position recorder
 [NASA-CASE-LAR-10806-1] c 35 N74-32877
 Vehicle locating system utilizing AM broadcasting station carriers
 [NASA-CASE-NPO-13217-1] c 32 N75-26194
 Impact position detector for outer space particles
 [NASA-CASE-GSC-11829-1] c 35 N75-27331
 Aircraft-mounted crash-activated transmitter device
 [NASA-CASE-MFS-16609-3] c 03 N76-32140
 Twin-capacitive shaft angle encoder with analog output signal
 [NASA-CASE-ARC-10897-1] c 33 N77-31404
 X-ray position detector
 [NASA-CASE-NPO-12087-1] c 74 N81-19898
 Adjustable indicating device for load position
 [NASA-CASE-MFS-28008-1] c 35 N85-20300
 Remote object configuration/orientation determination
 [NASA-CASE-NPO-17436-1-CU] c 35 N89-13764
 Controlled sample orientation and rotation in an acoustic levitator
 [NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
 Acoustic controlled rotation and orientation
 [NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

POSITION INDICATORS

- Scanning aspect sensor employing an apertured disc and a commutator
 [NASA-CASE-XGS-08266] c 14 N69-27432
 Angular measurement system Patent
 [NASA-CASE-XMF-00447] c 14 N70-33179
 Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099
 Angular position and velocity sensing apparatus Patent
 [NASA-CASE-XGS-05680] c 14 N71-17585
 Extended area semiconductor radiation detectors and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c 14 N71-23401
 Doppler compensation by shifting transmitted object frequency within limits
 [NASA-CASE-GSC-10087-4] c 07 N73-20174
 Meteoroid impact position locator aid for manned space station
 [NASA-CASE-LAR-10629-1] c 35 N75-33367
 Position determination systems --- using orbital antenna scan of celestial bodies
 [NASA-CASE-MSC-12593-1] c 17 N76-21250
 Solar cell angular position transducer
 [NASA-CASE-LAR-11999-1] c 44 N80-18552

- Synchronization tracking in pulse position modulation receiver
 [NASA-CASE-NPO-16256-1] c 32 N87-21207
 Aircraft control position indicator
 [NASA-CASE-LAR-12984-1] c 06 N87-22678
 Legislated emergency locating transmitters and emergency position indicating radio beacons
 [NASA-CASE-GSC-12892-1] c 32 N89-14374

POSITION SENSING

- Position sensing device employing misaligned magnetic field generating and detecting apparatus Patent
 [NASA-CASE-XGS-07514] c 23 N71-16099

POSITIONING

- Instrument support with precise lateral adjustment Patent
 [NASA-CASE-XMF-00480] c 14 N70-39898
 Portable alignment tool Patent
 [NASA-CASE-XMF-01452] c 15 N70-41371
 Optical alignment system Patent
 [NASA-CASE-XNP-02029] c 14 N70-41955
 Null device for hand controller Patent
 [NASA-CASE-XLA-01808] c 15 N71-20740
 Rotating raster generator
 [NASA-CASE-FRC-10071-1] c 32 N74-20813
 Low noise lead screw positioner
 [NASA-CASE-NPO-15617-1] c 35 N87-21304

POSITIONING DEVICES (MACHINERY)

- Swivel support for gas bearings Patent
 [NASA-CASE-XMF-07808] c 15 N71-23812
 Caterpillar micro positioner
 [NASA-CASE-GSC-10780-1] c 14 N72-16283
 Positioning mechanism
 [NASA-CASE-NPO-10679] c 15 N72-21462
 Test stand system for vacuum chambers
 [NASA-CASE-MFS-21362] c 11 N73-20267
 Method and apparatus for optically monitoring the angular position of a rotating mirror
 [NASA-CASE-GSC-11353-1] c 74 N74-21304
 Automatic focus control for facsimile cameras
 [NASA-CASE-LAR-11213-1] c 35 N75-15014
 Reference apparatus for medical ultrasonic transducer
 [NASA-CASE-ARC-10753-1] c 54 N75-27760
 Controlled caging and uncaging mechanism
 [NASA-CASE-GSC-11063-1] c 37 N77-27400
 Workpiece positioning vise
 [NASA-CASE-GSC-12762-1] c 37 N84-28083
 Load positioning system with gravity compensation
 [NASA-CASE-ARC-11525-1] c 37 N86-27629

POSITIVE FEEDBACK

- Complementary regenerative switch Patent
 [NASA-CASE-XGS-02751] c 09 N71-23015

POTABLE WATER

- Recovery of potable water from human wastes in below-G conditions Patent
 [NASA-CASE-XLA-03213] c 05 N71-11207
 Compact solar still Patent
 [NASA-CASE-XMS-04533] c 15 N71-23086
 Specialized halogen generator for purification of water Patent
 [NASA-CASE-XLA-08913] c 14 N71-28933
 Potable water dispenser
 [NASA-CASE-MFS-21115-1] c 54 N74-12779
 Metering gun for dispensing precisely measured charges of fluid
 [NASA-CASE-MFS-21163-1] c 54 N74-17853
 Iodine generator for reclaimed water purification
 [NASA-CASE-MSC-14632-1] c 54 N78-14784
 Degassing and mixing apparatus for liquids --- potable water for spacecraft
 [NASA-CASE-MSC-18936-1] c 35 N83-29652

POTASSIUM SILICATES

- Fire resistant coating composition Patent
 [NASA-CASE-GSC-10072] c 18 N71-14014

POTENTIOMETERS

- Angle detector
 [NASA-CASE-ARC-11036-1] c 35 N78-32395

POTENTIOMETERS (INSTRUMENTS)

- Two-axis controller Patent
 [NASA-CASE-XFR-04104] c 03 N70-42073
 Control device Patent
 [NASA-CASE-XAC-10019] c 15 N71-23809
 Line following servosystem Patent
 [NASA-CASE-XAC-00001] c 15 N71-28952
 Indirect microbial detection
 [NASA-CASE-LAR-12520-1] c 51 N81-28698
 Rotary control lock
 [NASA-CASE-NPO-17453-1-CU] c 37 N89-13787

POTTING COMPOUNDS

- Method and apparatus for shock protection Patent
 [NASA-CASE-XLA-00482] c 15 N70-36409
 Flexible, repairable, pottable material for electrical connectors Patent
 [NASA-CASE-XGS-05180] c 18 N71-25881
 Thermally conductive polymers
 [NASA-CASE-GSC-11304-1] c 06 N72-21105

POWDER (PARTICLES)

Method for forming pyrrone molding powders and products of said method

[NASA-CASE-LAR-10423-1] c 23 N82-29358

Powder fed sheared dispersal particle generator

[NASA-CASE-LAR-12785-1] c 37 N84-16561

POWDER METALLURGY

Process of casting heavy slips Patent

[NASA-CASE-XLE-00106] c 15 N71-16076

Fabrication of controlled-porosity metals Patent

[NASA-CASE-XNP-04339] c 17 N71-29137

Method of making dry electrodes

[NASA-CASE-FRC-10029-2] c 05 N72-25121

Method for producing dispersion strengthened alloys by converting metal to a halide, comminuting, reducing the metal halide to the metal and sintering

[NASA-CASE-LEW-10450-1] c 15 N72-25448

Method of forming superalloys

[NASA-CASE-LEW-10805-1] c 15 N73-13465

Method of heat treating a formed powder product material

[NASA-CASE-LEW-10805-3] c 26 N74-10521

Method of forming articles of manufacture from superalloy powders

[NASA-CASE-LEW-10805-2] c 37 N74-13179

Cermet composition and method of fabrication --- heat resistant alloys and powders

[NASA-CASE-NPO-13120-1] c 27 N76-15311

Oxidation resistant slurry coating for carbon-based materials

[NASA-CASE-LEW-13923-1] c 26 N85-35267

Method of coating a substrate with a rapidly solidified metal

[NASA-CASE-GSC-12880-1] c 26 N86-32550

POWDERED ALUMINUM

Aluminum ion-containing polyimide adhesives

[NASA-CASE-LAR-12640-1] c 27 N82-11206

POWER AMPLIFIERS

Ac power amplifier Patent Application

[NASA-CASE-LAR-10218-1] c 09 N70-34559

Power supply Patent

[NASA-CASE-XMS-02159] c 10 N71-22961

Broadband stable power multiplier Patent

[NASA-CASE-XNP-10854] c 10 N71-26331

Signal path series step biased multidevice high efficiency amplifier Patent

[NASA-CASE-GSC-10668-1] c 07 N71-28430

Isolated output system for a class D switching-mode amplifier

[NASA-CASE-MFS-21616-1] c 33 N75-30429

POWER CONDITIONING

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications

[NASA-CASE-NPO-14000-1] c 33 N79-24254

Self-reconfiguring solar cell system

[NASA-CASE-LEW-12586-1] c 44 N80-14472

Inelastic tunnel diodes

[NASA-CASE-LEW-13833-1] c 33 N85-21492

Power supply conditioning circuit

[NASA-CASE-NPO-17233-1-CU] c 33 N88-29095

POWER CONVERTERS

Gas-to-hydraulic power converter

[NASA-CASE-MSC-18794-1] c 44 N83-14693

POWER EFFICIENCY

Low power drain semi-conductor circuit

[NASA-CASE-XGS-04999] c 09 N69-24317

Excitation and detection circuitry for a flux responsive magnetic head

[NASA-CASE-XNP-04183] c 09 N69-24329

Apparatus for increasing ion engine beam density Patent

[NASA-CASE-XLE-00519] c 28 N70-41576

Gaseous control system for nuclear reactors

[NASA-CASE-XLE-04599] c 22 N72-20597

Remote platform power conserving system

[NASA-CASE-GSC-11182-1] c 15 N75-13007

Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability

[NASA-CASE-LAR-12843-1] c 02 N84-11136

Increased voltage photovoltaic cell

[NASA-CASE-NPO-16155-1] c 44 N85-30475

Wingtip vortex propeller

[NASA-CASE-LAR-13019-1] c 07 N85-35194

Linearized traveling wave amplifier with hard limiter characteristics

[NASA-CASE-LEW-13981-2] c 33 N86-21742

Low power consumption current transducer

[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

Permanent magnet flux-biased magnetic actuator with flux feedback

[NASA-CASE-LAR-13785-1] c 70 N90-17403

POWER FACTOR CONTROLLERS

Triac failure detector

[NASA-CASE-MFS-25607-1] c 33 N83-34190

Control system for an induction motor with energy recovery

[NASA-CASE-MFS-25477-1] c 33 N84-14424

Motor power control circuit for ac induction motors

[NASA-CASE-MFS-25323-1] c 33 N84-22886

Solar powered actuator with continuously variable auxiliary power control

[NASA-CASE-MFS-25637-1] c 44 N85-21769

Power control for ac motor

[NASA-CASE-MFS-25861-1] c 33 N85-22877

POWER GAIN

Serrodyne frequency converter re-entrant amplifier system Patent

[NASA-CASE-XGS-01022] c 07 N71-16088

CRT blanking and brightness control circuit

[NASA-CASE-KSC-10647-1] c 10 N72-31273

POWER LIMITERS

Monostable multivibrator

[NASA-CASE-GSC-10082-1] c 10 N72-20221

POWER LINES

Electrical connector for flat cables Patent

[NASA-CASE-XMF-00324] c 09 N70-34596

Motor run-up system --- power lines

[NASA-CASE-NPO-13374-1] c 33 N75-19524

Apparatus including a plurality of spaced transformers for locating short circuits in cables

[NASA-CASE-KSC-10899-1] c 33 N79-18193

Shielded conductor cable system

[NASA-CASE-MSC-12745-1] c 33 N81-27397

Electrical power generating system

[NASA-CASE-MFS-25302-1] c 33 N83-28319

Rotatable electric cable connecting system

[NASA-CASE-GSC-12899-1] c 33 N86-20669

POWER REACTORS

Low power consumption current transducer

[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681

POWER SERIES

Computing apparatus Patent

[NASA-CASE-XGS-04765] c 08 N71-18693

Phase modulating with odd and even finite power series of a modulating signal

[NASA-CASE-LAR-11607-1] c 32 N77-14292

POWER SPECTRA

Method and apparatus for high resolution spectral analysis

[NASA-CASE-NPO-10748] c 08 N72-20177

Instrument for determining coincidence and elapse time between independent sources of random sequential events

[NASA-CASE-LAR-12531-1] c 35 N83-29651

POWER SUPPLIES

Tape recorder Patent

[NASA-CASE-XGS-08259] c 14 N71-23698

Current dependent filter inductance

[NASA-CASE-ERC-10139] c 09 N72-17154

Power supply for carbon dioxide lasers

[NASA-CASE-GSC-11222-1] c 16 N73-32391

High voltage distributor

[NASA-CASE-GSC-11849-1] c 33 N76-16332

Method and apparatus for precision control of radiometer

[NASA-CASE-NPO-15398-1] c 35 N84-22931

POWER SUPPLY CIRCUITS

Regulated dc to dc converter

[NASA-CASE-XGS-03429] c 03 N69-21330

Power control circuit

[NASA-CASE-XNP-02713] c 10 N69-39888

Electronic amplifier with power supply switching

Patent

[NASA-CASE-XMS-00945] c 09 N71-10798

Heat pipe thermionic diode power system Patent

[NASA-CASE-XMF-05843] c 03 N71-11055

Pulsed energy power system Patent

[NASA-CASE-MSC-13112] c 03 N71-11057

Data processor having multiple sections activated at different times by selective power coupling to the sections

Patent

[NASA-CASE-XGS-04767] c 08 N71-12494

Microwave power receiving antenna Patent

[NASA-CASE-MFS-20333] c 09 N71-13486

Regulated power supply Patent

[NASA-CASE-XMS-01991] c 09 N71-21449

Power supply Patent

[NASA-CASE-XMS-02159] c 10 N71-22961

Polarity sensitive circuit Patent

[NASA-CASE-XNP-00952] c 10 N71-23271

Power supply circuit Patent

[NASA-CASE-XMS-00913] c 10 N71-23543

Drive circuit for minimizing power consumption in inductive load Patent

[NASA-CASE-NPO-10716] c 09 N71-24892

Unsaturating saturable core transformer Patent

[NASA-CASE-ERC-10125] c 09 N71-24893

Voltage dropout sensor Patent

[NASA-CASE-KSC-10020] c 10 N71-27338

Maximum power point tracker Patent

[NASA-CASE-GSC-10376-1] c 14 N71-27407

High power microwave power divider Patent

[NASA-CASE-NPO-11031] c 07 N71-33606

Ripple indicator

[NASA-CASE-KSC-10162] c 09 N72-11225

A dc to ac to dc converter having transistor synchronous rectifiers

[NASA-CASE-GSC-11126-1] c 09 N72-25253

LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers

[NASA-CASE-MFS-21698-1] c 33 N74-26732

Integrable power gyrator --- with Z-matrix design using parallel transistors

[NASA-CASE-MFS-22342-1] c 33 N75-30428

The dc-to-dc converters employing staggered-phase power switches with two-loop control

[NASA-CASE-NPO-13512-1] c 33 N77-10428

Control for nuclear thermionic power source

[NASA-CASE-NPO-13114-2] c 73 N78-28913

Closed Loop solar array-ion thruster system with power control circuitry

[NASA-CASE-LEW-12780-1] c 20 N79-20179

Three phase power factor controller

[NASA-CASE-MFS-25535-1] c 33 N81-12330

Power factor control system for ac induction motors

[NASA-CASE-MFS-23988-1] c 33 N81-27395

Triac failure detector

[NASA-CASE-MFS-25607-1] c 33 N83-34190

Arc lamp power supply using a voltage multiplier

[NASA-CASE-LAR-13202-1] c 33 N88-23942

PREBURNERS

Turbomachinery shaft insert

[NASA-CASE-MFS-28345-2] c 37 N89-28842

PRECESSION

Dynamic precession damper for spin stabilized vehicles

Patent

[NASA-CASE-XLA-01989] c 21 N70-34295

PRECIPITATION (CHEMISTRY)

Production of pure metals

[NASA-CASE-LEW-10906-1] c 25 N74-30502

PRECIPITATORS

Acoustic agglomeration methods and apparatus

[NASA-CASE-NPO-15466-1] c 71 N85-22104

PRECISION

Precision stepping drive Patent

[NASA-CASE-MFS-14772] c 15 N71-17692

Method and apparatus for precision sizing and joining of large diameter tubes Patent

[NASA-CASE-XMF-05114-2] c 15 N71-26148

PREDICTIONS

Digital phase-lock loop having an estimator and predictor of error

[NASA-CASE-NPO-17196-1-CU] c 32 N88-29076

Predictive aging of polymers

[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

PREFLIGHT OPERATIONS

Automatic balancing device Patent

[NASA-CASE-LAR-10774] c 10 N71-13545

PREFORMS

Method of preparing fiber reinforced ceramic material

[NASA-CASE-LEW-14392-1] c 27 N87-28656

PRELAUNCH TESTS

Parasitic probe antenna Patent

[NASA-CASE-XKS-09348] c 09 N71-13521

Electronic checkout system for space vehicles Patent

[NASA-CASE-XKS-08012-2] c 31 N71-15566

PREPOLYMERS

Novel polycarboxylic prepolymeric materials and polymers thereof Patent

[NASA-CASE-NPO-10596] c 06 N71-25929

Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same

[NASA-CASE-NPO-13137-1] c 27 N80-32514

Prepolymer dianhydrides

[NASA-CASE-NPO-13899-1] c 27 N80-32515

Structural wood panels with improved fire resistance

[NASA-CASE-ARC-11174-1] c 24 N81-13999

Method for forming pyrrone molding powders and products of said method

[NASA-CASE-LAR-10423-

PRESSURE CHAMBERS

- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

PRESSURE DISTRIBUTION

- Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329
- Prevention of pressure build-up in electrochemical cells Patent
[NASA-CASE-XGS-01419] c 03 N70-41864
- Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399
- Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
- Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
- Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932

PRESSURE DRAG

- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765

PRESSURE DROP

- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931

PRESSURE EFFECTS

- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
- Internally supported flexible duct joint --- device for conducting fluids in high pressure systems
[NASA-CASE-MFS-19193-1] c 37 N75-19686
- Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

PRESSURE GAGES

- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Apparatus for testing a pressure responsive instrument Patent
[NASA-CASE-XMF-04134] c 14 N71-23755
- Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
- Gas ion laser construction for electrically isolating the pressure gauge thereof
[NASA-CASE-MFS-22597] c 36 N78-17366

PRESSURE GRADIENTS

- Positive displacement flowmeter Patent
[NASA-CASE-XMF-02822] c 14 N70-41994
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680

PRESSURE HEADS

- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482

PRESSURE MEASUREMENT

- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Device for measuring pressure Patent
[NASA-CASE-XAC-04458] c 14 N71-24232
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994

Sensing probe

- [NASA-CASE-LEW-10281-1] c 14 N72-17327
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Apparatus for absolute pressure measurement
[NASA-CASE-LAR-10000] c 14 N73-30394
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Indicated mean-effective pressure instrument
[NASA-CASE-LEW-12661-1] c 35 N79-14345
- High-temperature microphone system --- for measuring pressure fluctuations in gases at high temperature
[NASA-CASE-LAR-12375-1] c 32 N79-24203
- Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358
- Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

PRESSURE REDUCTION

- Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924
- Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
- Depressurization of arc lamps
[NASA-CASE-NPO-10790-1] c 33 N77-21316
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Pressure shutdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] c 44 N84-14583
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800

PRESSURE REGULATORS

- Pressure regulating system Patent
[NASA-CASE-XNP-00450] c 15 N70-38603
- Resuscitation apparatus Patent
[NASA-CASE-XMP-01115] c 05 N70-39922
- High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
- Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194
- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125
- Combined pressure regulator and shutoff valve
[NASA-CASE-NPO-13201-1] c 37 N75-15050
- Pressure modulating valve
[NASA-CASE-MSC-14905-1] c 37 N77-28487
- Flow compensating pressure regulator
[NASA-CASE-LEW-12718-1] c 34 N78-25351
- Flow diverter valve and flow diversion method
[NASA-CASE-HQN-00573-1] c 37 N79-33468
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
- Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12723-1] c 52 N80-18690
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660

- Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] c 71 N84-14873
- Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252

PRESSURE SENSORS

- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
- Aerodynamic measuring device Patent
[NASA-CASE-XLA-00481] c 14 N70-36824
- Check valve assembly for a probe Patent
[NASA-CASE-XLA-00128] c 15 N70-37925
- Dynamic sensor Patent
[NASA-CASE-XAC-02877] c 14 N70-41681
- Inertia diaphragm pressure transducer Patent
[NASA-CASE-XAC-02981] c 14 N71-21072
- Linear differential pressure sensor Patent
[NASA-CASE-XMF-01974] c 14 N71-22752
- Pressure transducer calibrator Patent
[NASA-CASE-XNP-01660] c 14 N71-23036
- Instrument for measuring the dynamic behavior of liquids Patent
[NASA-CASE-XLA-05541] c 12 N71-26387
- Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
- Method of making pressurized panel Patent
[NASA-CASE-XLA-08916] c 15 N71-29018
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Pressure transducer
[NASA-CASE-NPO-10832] c 14 N72-21405
- Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204
- Wide range dynamic pressure sensor
[NASA-CASE-ARC-10263-1] c 14 N72-22438
- Differential pressure control
[NASA-CASE-MFS-14216] c 14 N73-13418
- Pressurized panel
[NASA-CASE-XLA-08916-2] c 14 N73-28487
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Circuit for detecting initial systole and diastolic notch --- for monitoring arterial pressure
[NASA-CASE-LEW-11581-1] c 54 N75-13531
- Leak detector
[NASA-CASE-MFS-21761-1] c 35 N75-15931
- Measurement of gas production of microorganisms --- using pressure sensors
[NASA-CASE-LAR-11326-1] c 35 N75-33368
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- Trielectrode capacitive pressure transducer
[NASA-CASE-ARC-10711-2] c 33 N76-21390
- Catheter tip force transducer for cardiovascular research
[NASA-CASE-NPO-13643-1] c 52 N76-29896
- Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
- Pressure transducer --- using a monomeric charge transfer complex sensor
[NASA-CASE-NPO-11150] c 35 N78-17359
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
- Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- Porous plug for reducing orifice induced pressure error in airfoils
[NASA-CASE-LAR-13569-1] c 35 N89-12841
- Circumferential pressure probe
[NASA-CASE-LAR-13775-1] c 35 N89-14408
- Pressure measuring probe
[NASA-CASE-LAR-13853-1] c 35 N89-14423

PRESSURE SUITS

- Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
- Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
- Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
- Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
- Method of forming a root cord restrained convolute section
[NASA-CASE-MSC-12398] c 05 N72-20098
- Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
- Flexible joint for pressurizable garment
[NASA-CASE-MSC-11072] c 54 N74-32546
- Walking boot assembly
[NASA-CASE-ARC-11101-1] c 54 N78-17675
- Pressure suit joint analyzer
[NASA-CASE-ARC-11314-1] c 54 N82-26987
- Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] c 54 N84-16803

PRESSURE SWITCHES

- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Calibrating pressure switch
[NASA-CASE-XMF-04494-1] c 33 N79-33392

PRESSURE VESSELS

- Liquid rocket system Patent
[NASA-CASE-XNP-00610] c 28 N70-36910
- Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- Gas regulator Patent
[NASA-CASE-NPO-10298] c 12 N71-17661
- Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616
- Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
- Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563
- Gas compression apparatus
[NASA-CASE-MSC-14757-1] c 35 N78-10428
- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894

PRESSURE WELDING

- Diffusion welding --- heat treatment of nickel alloys following single step vacuum welding process
[NASA-CASE-LEW-11388-2] c 37 N74-21055

PRESSURIZING

- Restraining mechanism
[NASA-CASE-MSC-13054] c 54 N78-17677

PRESTRESSING

- Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
- Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181

PRETREATMENT

- Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482

PRINTED CIRCUITS

- Electrical feed-through connection for printed circuit boards and printed cable
[NASA-CASE-XMF-01483] c 14 N69-27431
- Printed cable connector Patent
[NASA-CASE-XMF-00369] c 09 N70-36494
- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960
- Electrical spot terminal assembly Patent
[NASA-CASE-NPO-10034] c 15 N71-17685
- Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705

- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
- Polyimide resin-fiberglass cloth laminates for printed circuit boards
[NASA-CASE-MFS-20408] c 18 N73-12604
- Circuit board package with wedge shaped covers
[NASA-CASE-MFS-21919-1] c 10 N73-25243
- Device for configuring multiple leads --- method for connecting electric leads to printed circuit board
[NASA-CASE-MFS-22133-1] c 33 N74-26977
- Connector --- for connecting circuits on different layers of multilayer printed circuit boards
[NASA-CASE-LAR-11709-1] c 37 N76-27567
- Controlled caging and uncaging mechanism
[NASA-CASE-GSC-11063-1] c 37 N77-27400
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314

PRINTING

- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] c 35 N84-22930
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530

PRINTOUTS

- Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133

PRISMS

- Interferometric rotation sensor
[NASA-CASE-ARC-10278-1] c 14 N73-25463
- Method and apparatus for splitting a beam of energy --- optical communication
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Multiprism collimator
[NASA-CASE-GSC-12608-1] c 74 N83-10900
- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978
- Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509

PROBABILITY THEORY

- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896

PROBES

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Droplet monitoring probe
[NASA-CASE-NPO-10985] c 14 N73-20478
- System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
- Heat pipe cooled probe
[NASA-CASE-LAR-12588-1] c 34 N85-21568
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

PROCESS CONTROL (INDUSTRY)

- Photoelectric detection system --- manufacturing automation
[NASA-CASE-MFS-23776-1] c 33 N82-28545
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-3] c 27 N85-21350
- Chemical approach for controlling nadimide cure temperature and rate with maleimide
[NASA-CASE-LEW-13770-4] c 27 N85-21351
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360

PROCESSING

- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

PRODUCT DEVELOPMENT

- Technique of duplicating fragile core
[NASA-CASE-XLA-07829] c 15 N72-16329
- Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
- Process for making diamonds
[NASA-CASE-MFS-20698-2] c 15 N73-19457
- High power laser apparatus and system
[NASA-CASE-XLE-2529-2] c 36 N75-27364
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Process for preparation of large-particle-size monodisperse latexes
[NASA-CASE-MFS-25000-1] c 25 N81-19242
- Ion-exchange hollow fibers
[NASA-CASE-NPO-13309-1] c 25 N81-19244
- Precision heat forming of tetrafluoroethylene tubing
[NASA-CASE-MSC-18430-1] c 37 N82-24491
- Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854

PRODUCTION ENGINEERING

- Indexed keyed connection Patent
[NASA-CASE-XMS-02532] c 15 N70-41808
- Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
- Method of making self lubricating fluoride-metal composite materials Patent
[NASA-CASE-XLE-08511-2] c 18 N71-16105
- Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
- Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
- Flexible conductive disc electrode Patent
[NASA-CASE-FRC-10029] c 09 N71-24618
- Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
- Process for making sheets with parallel pores of uniform size
[NASA-CASE-GSC-10984-1] c 37 N75-26371
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Multilevel metallization method for fabricating a metal oxide semiconductor device
[NASA-CASE-MFS-23541-1] c 76 N79-14906
- Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
- Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884

PROJECTILES

- Self-obliterating, gas operated launcher
[NASA-CASE-NPO-11013] c 11 N72-22247
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931

PROJECTION

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTIVE GEOMETRY

- Projection system for display of parallax and perspective
[NASA-CASE-MFS-23194-1] c 35 N78-17357

PROJECTORS

- Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856
- Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

PROPAGATION MODES

- Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676

PROPAGATION VELOCITY

- Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559

PROPARGYL GROUPS

- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
- Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123

PROPELLANT ACTUATED INSTRUMENTS

- Pressure limiting propellant actuating system
[NASA-CASE-MSC-18179-1] c 20 N80-18097

PROPELLANT ADDITIVES

- Inhibited solid propellant composition containing beryllium hydride
[NASA-CASE-NPO-10866-1] c 28 N79-14228

PROPELLANT BINDERS

- Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119

PROPELLANT CASTING

- Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

PROPELLANT CHEMISTRY

- Nitramine propellants --- gun propellant burning rate
[NASA-CASE-NPO-14103-1] c 28 N78-31255

PROPELLANT COMBUSTION

- Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507

PROPELLANT DECOMPOSITION

- Decomposition unit Patent
[NASA-CASE-XMS-00583] c 28 N70-38504

PROPELLANT GRAINS

- Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03558] c 27 N70-35534

PROPELLANT TANKS

- Liquid rocket system Patent
[NASA-CASE-NPO-00610] c 28 N70-36910
Slosh suppressing device and method Patent
[NASA-CASE-XMF-00658] c 12 N70-38997
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948
Method and apparatus for detection and location of microleaks Patent
[NASA-CASE-XMF-02307] c 14 N71-10779
Method of making a filament-wound container Patent
[NASA-CASE-XLE-03803-2] c 15 N71-17651
Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Booster tank system Patent
[NASA-CASE-MS-12390] c 27 N71-29155
Space vehicle system
[NASA-CASE-MS-12561-1] c 18 N76-17185
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLANT TRANSFER

- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
Electrostatic ion rocket engine Patent
[NASA-CASE-XLE-02066] c 28 N71-15661
Control of transverse instability in rocket combustors Patent
[NASA-CASE-XLE-04603] c 33 N71-21507
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781
Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Passive propellant system
[NASA-CASE-MFS-23642-2] c 20 N78-27176
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

PROPELLANTS

- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161

PROPELLER BLADES

- Propeller blade loading control Patent
[NASA-CASE-XAC-00139] c 02 N70-34856

PROPELLER EFFICIENCY

- Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828

PROPELLERS

- Heads up display
[NASA-CASE-LAR-12630-1] c 06 N84-27733

- Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224
- PROPORTIONAL CONTROL**
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
- PROPULSION SYSTEM CONFIGURATIONS**
Electro-thermal rocket Patent
[NASA-CASE-XLE-00267] c 28 N70-33356
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Annular slit colloid thruster Patent
[NASA-CASE-GSC-10709-1] c 28 N71-25213
Propellant tank pressurization system Patent
[NASA-CASE-XNP-00650] c 27 N71-28929
Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Over-the-wing propeller
[NASA-CASE-LAR-13134-2] c 07 N87-16828
- PROPULSION SYSTEM PERFORMANCE**
Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067
- PROPYLENE**
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- PROSTHETIC DEVICES**
Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013
Orthotic arm joint --- for use in mechanical arms
[NASA-CASE-MFS-21611-1] c 54 N75-12616
Actuator device for artificial leg
[NASA-CASE-MFS-23225-1] c 52 N77-14735
Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
Rotational joint assembly for the prosthetic leg
[NASA-CASE-KSC-11004-1] c 54 N77-30749
Mechanical energy storage device for hip disarticulation
[NASA-CASE-ARC-10916-1] c 52 N78-10686
Method of adhering bone to a rigid substrate using a graphite fiber reinforced bone cement
[NASA-CASE-NPO-13764-1] c 27 N78-17215
Compact artificial hand
[NASA-CASE-NPO-13906-1] c 54 N79-24652
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- PROTECTION**
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Fiber modified polyurethane foam for ballistic protection
[NASA-CASE-ARC-10714-1] c 27 N76-15310
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083
- PROTECTIVE CLOTHING**
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Biological isolation garment Patent
[NASA-CASE-MS-12206-1] c 05 N71-17599
Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147
Foreshortened convolute section for a pressurized suit Patent
[NASA-CASE-XMS-09637-1] c 05 N71-24730
Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108
Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
Ultra-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206

PROTECTIVE COATINGS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Bacteriostatic conformal coating and methods of application Patent
[NASA-CASE-GSC-10007] c 18 N71-16046
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00284] c 15 N71-16075
Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
[NASA-CASE-XLA-00302] c 15 N71-16077
Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
Process for reducing secondary electron emission Patent
[NASA-CASE-XNP-09469] c 24 N71-25555
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Method of coating through-holes Patent
[NASA-CASE-XMF-05999] c 15 N71-29032
Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
High temperature oxidation resistant cermet compositions
[NASA-CASE-NPO-13666-1] c 27 N77-13217
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Fire protection covering for small diameter missiles
[NASA-CASE-ARC-11104-1] c 15 N79-26100
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MS-18382-1] c 27 N82-16238
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MS-18382-2] c 27 N84-14324

Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Apparatus for producing oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-2] c 27 N86-32569
Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482
Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

PROTECTORS

Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706

PROTEINS

Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
[NASA-CASE-GSC-10225-1] c 06 N73-27086
Hanging drop crystal growth apparatus and method
[NASA-CASE-MFS-28206-1-SB] c 76 N88-25356
Crystal growth apparatus
[NASA-CASE-MFS-28182-1] c 76 N88-25357

PROTOCOL (COMPUTERS)

Multicomputer communication system
[NASA-CASE-NPO-15433-1] c 32 N85-21428
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137

PROTON FLUX DENSITY

Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410

PROXIMITY

Focal plane array optical proximity sensor
[NASA-CASE-NPO-15155-1] c 74 N85-22139
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

PSEUDONOISE

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

PULLEYS

Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834

PULLING

Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

PULMONARY CIRCULATION

Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

PULMONARY FUNCTIONS

Instrument for use in performing a controlled Valsalva maneuver Patent
[NASA-CASE-XMS-01615] c 05 N70-41329

PULSE AMPLITUDE

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Analog to digital converter Patent
[NASA-CASE-XLA-00670] c 08 N71-12501
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Analog-to-digital converter
[NASA-CASE-XNP-00477] c 08 N73-28045

Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-11389-1] c 33 N77-26387
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Power factor control system for ac induction motors
[NASA-CASE-MFS-23988-1] c 33 N81-27395
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

PULSE AMPLITUDE MODULATION

Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418

PULSE CODE MODULATION

Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
System for recording and reproducing pulse code modulated data Patent
[NASA-CASE-XGS-01021] c 08 N71-21042
Frequency shift keying apparatus Patent
[NASA-CASE-XGS-01537] c 07 N71-23405
Data compression system
[NASA-CASE-NPO-11243] c 07 N72-20154
Method and apparatus for frequency-division multiplex communications by digital phase shift of carrier
[NASA-CASE-NPO-11338] c 08 N72-25208
Apparatus for deriving synchronizing pulses from pulses in a single channel PCM communications system
[NASA-CASE-NPO-11302-1] c 07 N73-13149
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Multifunction audio digitizer --- producing direct delta and pulse code modulation
[NASA-CASE-MSC-13855-1] c 35 N74-17885
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Digital demodulator
[NASA-CASE-LAR-12659-1] c 33 N82-26570
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE COMMUNICATION

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961
Differential pulse code modulation
[NASA-CASE-MSC-12506-1] c 32 N77-12239
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

PULSE DURATION

Frequency to analog converter Patent
[NASA-CASE-XNP-07040] c 08 N71-12500
Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
Variable pulse width multiplier Patent
[NASA-CASE-XLA-02850] c 09 N71-20447
Pulse width inverter Patent
[NASA-CASE-MFS-10068] c 10 N71-25139
Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711

PULSE DURATION MODULATION

Pulse-width modulation multiplier Patent
[NASA-CASE-XER-09213] c 07 N71-12390
Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860
Load current sensor for a series pulse width modulated power supply
[NASA-CASE-GSC-10656-1] c 09 N72-25249
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392

PULSE FREQUENCY MODULATION

Apparatus for measuring current flow Patent
[NASA-CASE-XGS-02439] c 14 N71-19431
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Noninterruptible digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
Frequency modulation demodulator threshold extension device Patent
[NASA-CASE-MSC-12165-1] c 07 N71-33696
Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349

PULSE GENERATORS

High voltage pulse generator Patent
[NASA-CASE-MSC-12178-1] c 09 N71-13518
Flipflop interrogator and bi-polar current driver Patent
[NASA-CASE-XGS-03058] c 10 N71-19547
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Resettable monostable pulse generator Patent
[NASA-CASE-GSC-11139] c 09 N71-27016
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197
Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-12133-1] c 38 N74-15395
Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE HEATING

Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484

PULSE MODULATION

Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] c 32 N87-21207

PULSE RATE

Counter Patent
[NASA-CASE-XNP-06234] c 10 N71-27137
Peak holding circuit for extremely narrow pulses
[NASA-CASE-MSC-14129-1] c 33 N75-18479

PULSED LASERS

Repetitively pulsed, wavelength selective laser Patent
[NASA-CASE-ERC-10178] c 16 N71-24832
Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477
Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Coherently pulsed laser source
[NASA-CASE-NPO-15111-1] c 36 N82-29589
Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

PULSED RADIATION

Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373

- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- PULSES**
High pulse rate high resolution optical radar system
[NASA-CASE-NPO-11426] c 07 N73-26119
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
- PULTRUSION**
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
- PUMP SEALS**
Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
- PUMPS**
Piezoelectric pump Patent
[NASA-CASE-XNP-05429] c 26 N71-21824
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Automatic pump Patent
[NASA-CASE-XNP-04731] c 15 N71-24042
Hydraulic transformer Patent
[NASA-CASE-MFS-20830] c 15 N71-30028
Firefly pump-metering system
[NASA-CASE-GSC-10218-1] c 15 N72-21465
Magnetocaloric pump --- for cryogenic fluids
[NASA-CASE-LEW-11672-1] c 37 N74-27904
Continuous coal processing method
[NASA-CASE-NPO-13758-2] c 31 N81-15154
Gas-to-hydraulic power converter
[NASA-CASE-MSC-18794-1] c 44 N83-14693
Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Multi-path peristaltic pump
[NASA-CASE-MSC-20907-1] c 37 N87-18818
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
- PUNCHED CARDS**
File card marker Patent
[NASA-CASE-XLA-02705] c 08 N71-15908
Device for handling printed circuit cards Patent
[NASA-CASE-MFS-20453] c 15 N71-29133
- PUNCHES**
Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- PURGING**
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Apparatus for purging systems handling toxic, corrosive, noxious and other fluids Patent
[NASA-CASE-XMS-01905] c 12 N71-21089
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- PURIFICATION**
High pressure helium purifier Patent
[NASA-CASE-XMF-06888] c 15 N71-24044
Method and apparatus for distillation of liquids Patent
[NASA-CASE-XNP-08124] c 15 N71-27184
Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Electromigration process for the purification of molten silicon during crystal growth
[NASA-CASE-NPO-14831-1] c 76 N82-30105
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- PURITY**
Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
- Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
- PUSH-PULL AMPLIFIERS**
Frequency modulated oscillator
[NASA-CASE-MFS-23181-1] c 33 N77-17351
Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- PUSHING**
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
- PYLONS**
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- PYRIDINES**
Nuclear alkylated pyridine aldehyde polymers and conductive compositions thereof
[NASA-CASE-NPO-10557] c 27 N78-17214
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908
Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845
- PYROELECTRICITY**
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
- PYROGEN**
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
- PYROLYSIS**
Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- PYROLYTIC GRAPHITE**
Multislit film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- PYROLYTIC MATERIALS**
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
- PYROMETERS**
Ablation sensor
[NASA-CASE-XLA-01781] c 14 N69-39975
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- PYROTECHNICS**
Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
- PYRRONES (TRADEMARK)**
Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Q**
- Q SWITCHED LASERS**
Optically detonated explosive device
[NASA-CASE-NPO-11743-1] c 28 N74-27425
Spatial filter for Q-switched lasers
[NASA-CASE-LEW-12164-1] c 36 N77-32478
Laser Resonator
[NASA-CASE-GSC-12565-1] c 36 N84-14509
Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816
- Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- Q VALUES**
Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
- QUADRANTS**
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764
- QUADRATIC PROGRAMMING**
Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- QUADRATURES**
Automatic quadrature control and measuring system --- using optical coupling circuitry
[NASA-CASE-MFS-21660-1] c 35 N74-21017
- QUALITATIVE ANALYSIS**
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Discrete event simulation tool for analysis of qualitative models of continuous processing systems
[NASA-CASE-MSC-21465-1] c 61 N90-16410
- QUANTITATIVE ANALYSIS**
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428
Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
[NASA-CASE-ARC-10308-1] c 06 N72-31141
Analysis of volatile organic compounds --- trace amounts of organic volatiles in gas samples
[NASA-CASE-MSC-14428-1] c 23 N77-17161
Electrophotolysis oxidation system for measurement of organic concentration in water
[NASA-CASE-MSC-16497-1] c 25 N82-12166
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- QUANTUM THEORY**
III-V photocathode with nitrogen doping for increased quantum efficiency
[NASA-CASE-NPO-12134-1] c 33 N76-31409
- QUARTZ**
Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
- QUARTZ LAMPS**
High intensity heat and light unit Patent
[NASA-CASE-XLA-00141] c 09 N70-33312
Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- QUINOXALINES**
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- R**
- RACKS (FRAMES)**
Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] c 35 N86-20751
- RADAR ANTENNAS**
Radar antenna system for acquisition and tracking Patent
[NASA-CASE-XMS-09610] c 07 N71-24625

Variable beamwidth antenna --- with multiple beam, variable feed system
 [NASA-CASE-GSC-11862-1] c 32 N76-18295
 Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
 [NASA-CASE-NPO-13568-1] c 32 N76-21365
 Baseband signal combiner for large aperture antenna array
 [NASA-CASE-NPO-14641-1] c 32 N81-29308

RADAR ATTENUATION
 FM/CW radar system
 [NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR BEACONS
 Video processor for air traffic control beacon system
 [NASA-CASE-KSC-11155-1] c 04 N86-19304

RADAR BEAMS
 Method and apparatus for measuring frequency and phase difference
 [NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR CROSS SECTIONS
 Method and apparatus for sensor fusion
 [NASA-CASE-MSC-21334-1] c 32 N89-25360
 Almond test body --- for microwave anechoic chambers
 [NASA-CASE-LAR-13747-1-CU] c 32 N89-28672

RADAR DATA
 Charge-coupled device data processor for an airborne imaging radar system
 [NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR DETECTION
 Method and apparatus for measuring frequency and phase difference
 [NASA-CASE-MSC-20865-1] c 32 N87-18692

RADAR ECHOES
 Charge-coupled device data processor for an airborne imaging radar system
 [NASA-CASE-NPO-13587-1] c 32 N77-32342

RADAR EQUIPMENT
 Method and apparatus for mapping planets
 [NASA-CASE-NPO-11001] c 07 N72-21118
 FM/CW radar system
 [NASA-CASE-MFS-22234-1] c 32 N79-10264

RADAR IMAGERY
 Method of locating persons in distress --- by using radar imagery from radar reflectors
 [NASA-CASE-LAR-11390-1] c 32 N77-21267
 Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
 [NASA-CASE-NPO-14525-1] c 32 N79-19195
 Radar target for remotely sensing hydrological phenomena
 [NASA-CASE-LAR-12344-1] c 43 N80-18498
 Real-time multiple-look synthetic aperture radar processor for spacecraft applications
 [NASA-CASE-NPO-14054-1] c 32 N82-12297
 Clutter free synthetic aperture radar correlator
 [NASA-CASE-NPO-14035-1] c 32 N83-19968
 Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
 [NASA-CASE-NPO-14525-2] c 32 N83-31918
 Method and apparatus for contour mapping using synthetic aperture radar
 [NASA-CASE-NPO-15939-1] c 43 N86-19711

RADAR MEASUREMENT
 Thickness measurement system
 [NASA-CASE-MFS-23721-1] c 31 N79-28370

RADAR RANGE
 Radar ranging receiver Patent
 [NASA-CASE-XNP-00748] c 07 N70-36911

RADAR RECEIVERS
 Polarization diversity monopulse tracking receiver Patent
 [NASA-CASE-XGS-03501] c 09 N71-20864

RADAR RECEPTION
 Radar ranging receiver Patent
 [NASA-CASE-XNP-00748] c 07 N70-36911

RADAR REFLECTORS
 Inflatable radar reflector unit Patent
 [NASA-CASE-XMS-00893] c 07 N70-40063
 Method of locating persons in distress --- by using radar imagery from radar reflectors
 [NASA-CASE-LAR-11390-1] c 32 N77-21267

RADAR TARGETS
 Radar target for remotely sensing hydrological phenomena
 [NASA-CASE-LAR-12344-1] c 43 N80-18498
 Synthetic aperture radar target simulator
 [NASA-CASE-NPO-15024-1] c 32 N84-27951

RADAR TRACKING
 Tracking antenna system Patent
 [NASA-CASE-GSC-10553-1] c 07 N71-19854
 Polarization diversity monopulse tracking receiver Patent
 [NASA-CASE-XGS-03501] c 09 N71-20864
 Monopulse tracking system Patent
 [NASA-CASE-XGS-01155] c 10 N71-21483

Radar calibration sphere
 [NASA-CASE-XLA-11154] c 07 N72-21117
 Echo tracker/range finder for radars and sonars
 [NASA-CASE-NPO-14361-1] c 32 N82-23376

RADAR TRANSMITTERS
 High pulse rate high resolution optical radar system
 [NASA-CASE-NPO-11426] c 07 N73-26119

RADIAL DISTRIBUTION
 Ultrasonic transducer with Gaussian radial pressure distribution
 [NASA-CASE-LAR-12967-1] c 35 N84-22932

RADIAL FLOW
 Radial heat flux transformer
 [NASA-CASE-NPO-10828] c 33 N72-17948
 Axially and radially controllable magnetic bearing
 [NASA-CASE-GSC-11551-1] c 37 N76-18459

RADIANCE
 Shock-layer radiation measurement
 [NASA-CASE-XAC-02970] c 14 N69-39896

RADIANT COOLING
 Direct radiation cooling of the collector of linear beam tubes
 [NASA-CASE-XNP-09227] c 15 N69-24319
 Process for applying black coating to metals Patent
 [NASA-CASE-XLA-06199] c 15 N71-24875
 Method for attaching a fused-quartz mirror to a conductive metal substrate
 [NASA-CASE-MFS-23405-1] c 26 N77-29260
 Radiative cooler --- spacecraft radiators
 [NASA-CASE-NPO-15465-1] c 34 N84-22903
 Liquid sheet radiator apparatus
 [NASA-CASE-LEW-14295-1] c 31 N89-14348

RADIANT FLUX DENSITY
 High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
 [NASA-CASE-ARC-10178-1] c 09 N72-17152
 Microwave power transmission beam safety system
 [NASA-CASE-NPO-14224-1] c 33 N80-18287

RADIANT HEATING
 High intensity heat and light unit Patent
 [NASA-CASE-XLA-00141] c 09 N70-33312
 High temperature heat source Patent
 [NASA-CASE-XLE-00490] c 33 N70-34545
 Radiant heater having formed filaments Patent
 [NASA-CASE-XLE-00387] c 33 N70-34812
 Ceramic insulation for radiant heating environments and method of preparing the same Patent
 [NASA-CASE-MFS-14253] c 33 N71-24858
 Portable linear-focused solar thermal energy collecting system
 [NASA-CASE-NPO-13734-1] c 44 N78-10554
 High thermal power density heat transfer --- thermionic converters
 [NASA-CASE-LEW-12950-1] c 34 N82-11399

RADIATION
 Two color horizon sensor
 [NASA-CASE-ERC-10174] c 14 N72-25409
 Irradiance measuring device
 [NASA-CASE-NPO-11493] c 14 N73-12447
 Analog to digital converter for two-dimensional radiant energy array computers
 [NASA-CASE-GSC-11839-3] c 60 N77-32731
 Memory device for two-dimensional radiant energy array computers
 [NASA-CASE-GSC-11839-2] c 60 N78-10709

RADIATION ABSORPTION
 NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
 [NASA-CASE-ARC-10802-1] c 35 N75-30502
 Method for making an aluminum or copper substrate panel for selective absorption of solar energy
 [NASA-CASE-MFS-23518-1] c 44 N79-11469
 Broadband optical radiation detector
 [US-PATENT-4,262,198] c 74 N83-19597

RADIATION COUNTERS
 Particle detection apparatus Patent
 [NASA-CASE-XLA-00135] c 14 N70-33322
 Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
 [NASA-CASE-XGS-00466] c 21 N70-34297
 Particle beam measurement apparatus using beam kinetic energy to change the heat sensitive resistance of the detection probe Patent
 [NASA-CASE-XLE-00243] c 14 N70-38602
 Baseline stabilization system for ionization detector Patent
 [NASA-CASE-XNP-03128] c 10 N70-41991
 Method of forming thin window drifted silicon charged particle detector Patent
 [NASA-CASE-XLE-00808] c 24 N71-10560
 Dosimeter for high levels of absorbed radiation Patent
 [NASA-CASE-XLA-03645] c 14 N71-20430
 Coincidence apparatus for detecting particles
 [NASA-CASE-XLA-07813] c 14 N72-17328

Radiation and particle detector and amplifier
 [NASA-CASE-NPO-12128-1] c 14 N73-32317
 Coaxial anode wire for gas radiation counters
 [NASA-CASE-GSC-11492-1] c 35 N74-26949
 Particle parameter analyzing system --- x-y plotter circuits and display
 [NASA-CASE-XLE-06094] c 33 N78-17293
 Method and means for helium/hydrogen ratio measurement by alpha scattering
 [NASA-CASE-NPO-14079-1] c 25 N80-20334
 Ion mass spectrometer
 [NASA-CASE-NPO-15423-1] c 35 N84-28016
 Radionuclide counting technique for measuring wind velocity and direction
 [NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIATION DAMAGE
 Semiconductor material and method of making same Patent
 [NASA-CASE-XLE-02798] c 26 N71-23654
 Recovery of radiation damaged solar cells through thermal annealing
 [NASA-CASE-XGS-04047-2] c 03 N72-11062
 Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
 [NASA-CASE-ARC-10593-1] c 33 N74-27682
 Lithium counterdoped silicon solar cell
 [NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATION DETECTORS
 Penetrating radiation system for detecting the amount of liquid in a tank Patent
 [NASA-CASE-MSC-12280] c 27 N71-16348
 Light detection instrument Patent
 [NASA-CASE-XGS-05534] c 23 N71-16355
 Attitude sensor for space vehicles Patent
 [NASA-CASE-XLA-00793] c 21 N71-22880
 Extended area semiconductor radiation detectors and a novel readout arrangement Patent
 [NASA-CASE-XGS-03230] c 14 N71-23401
 Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
 [NASA-CASE-ARC-10308-1] c 06 N72-31141
 Radiant source tracker independent of nonconstant irradiance
 [NASA-CASE-NPO-11686] c 14 N73-25462
 Radiation and particle detector and amplifier
 [NASA-CASE-NPO-12128-1] c 14 N73-32317
 Mossbauer spectrometer radiation detector
 [NASA-CASE-LAR-11155-1] c 35 N74-15091
 High field CdS detector for infrared radiation
 [NASA-CASE-LAR-11027-1] c 35 N74-18088
 Flame detector operable in presence of proton radiation
 [NASA-CASE-MFS-21577-1] c 19 N74-29410
 Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
 [NASA-CASE-NPO-13327-1] c 35 N75-23910
 Detector absorptivity measuring method and apparatus
 [NASA-CASE-LAR-10907-1] c 35 N76-29551
 Wedge immersed thermistor bolometers
 [NASA-CASE-XGS-01245-1] c 35 N79-33449
 X-ray position detector
 [NASA-CASE-NPO-12087-1] c 74 N81-19898
 Broadband optical radiation detector
 [US-PATENT-4,262,198] c 74 N83-19597
 Miniature spectrally selective dosimeter
 [NASA-CASE-LAR-12469-1] c 35 N83-21311
 Method and apparatus for precision control of radiometer
 [NASA-CASE-NPO-15398-1] c 35 N84-22931
 Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
 [NASA-CASE-NPO-16372-1] c 72 N86-33127
 Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
 [NASA-CASE-LAR-13597-1-CU] c 25 N87-27313

RADIATION DISTRIBUTION
 Space simulator Patent
 [NASA-CASE-XNP-00459] c 11 N70-38675

RADIATION DOSAGE
 Dosimeter for high levels of absorbed radiation Patent
 [NASA-CASE-XLA-03645] c 14 N71-20430
 Method for analyzing radiation sensitivity of integrated circuits
 [NASA-CASE-NPO-14350-1] c 33 N80-14332
 Miniature spectrally selective dosimeter
 [NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION EFFECTS
 Method of temperature compensating semiconductor strain gages Patent
 [NASA-CASE-XLA-04555-1] c 14 N71-25892

RADIATION HARDENING

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential of field effect device
[NASA-CASE-GSC-11425-1] c 76 N74-20329

RADIATION HAZARDS

Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

RADIATION MEASUREMENT

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

RADIATION MEASURING INSTRUMENTS

Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

Infrared scanner Patent
[NASA-CASE-XLA-00120] c 21 N70-33181

Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946

Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901

Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

Phototransistor
[NASA-CASE-MFS-20407] c 09 N73-19235

Method and apparatus for measuring electromagnetic radiation
[NASA-CASE-LEW-11159-1] c 14 N73-28488

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Coaxial anode wire for gas radiation counters
[NASA-CASE-GSC-11492-1] c 35 N74-26949

Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

RADIATION MEDICINE

Method of producing I-123 --- by bombardment of cesium causing spallation
[NASA-CASE-LEW-11390-2] c 25 N76-27383

RADIATION PROTECTION

Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat
[NASA-CASE-XNP-01310] c 33 N71-28852

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

Photomultiplier circuit including means for rapidly reducing the sensitivity thereof --- and protection from radiation damage
[NASA-CASE-ARC-10593-1] c 33 N74-27682

Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206

RADIATION SHIELDING

Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422

Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482

Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600

Propellant feed isolator Patent
[NASA-CASE-LEW-10210-1] c 28 N71-26781

Zero gravity shadow shield aligner
[NASA-CASE-KSC-10622-1] c 31 N72-21893

Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066

RADIATION SOURCES

Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985

Apparatus for obtaining isotropic irradiation of a specimen
[NASA-CASE-MFS-20095] c 24 N72-11595

Radiant source tracker independent of nonconstant irradiance
[NASA-CASE-NPO-11686] c 14 N73-25462

High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913

Electric arc light source having undercut recessed anode
[NASA-CASE-ARC-10266-1] c 33 N75-29318

RADIATION SPECTRA

Maksutov spectrograph Patent
[NASA-CASE-XLA-10402] c 14 N71-29041

RADIATION THERAPY

Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

RADIATION TOLERANCE

Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979

Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607

Radiation resistant silicon semiconductor devices Patent
[NASA-CASE-XGS-07801] c 09 N71-12513

Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730

Method for analyzing radiation sensitivity of integrated circuits
[NASA-CASE-NPO-14350-1] c 33 N80-14332

Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875

RADIATIVE HEAT TRANSFER

Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459

Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035

Transient heat transfer gauge Patent
[NASA-CASE-XNP-09802] c 33 N71-15641

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Apparatus and method for heating a material in a transparent ampoule --- crystal growth
[NASA-CASE-MFS-25436-1] c 27 N83-36220

RADIATORS

Self-adjusting multisegment, deployable, natural circulation radiator Patent
[NASA-CASE-XHQ-03673] c 33 N71-29046

RADIO ANTENNAS

Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Unfurlable structure including coiled strips thrust launched upon tension release Patent
[NASA-CASE-HQN-00937] c 07 N71-28979

Highly efficient antenna system using a corrugated horn and scanning hyperbolic reflector
[NASA-CASE-NPO-13568-1] c 32 N76-21365

Switched steerable multiple beam antenna system
[NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

RADIO ASTRONOMY

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO BEACONS

RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

Legislated emergency locating transmitters and emergency position indicating radio beacons
[NASA-CASE-GSC-12892-1] c 32 N89-14374

RADIO COMMUNICATION

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO CONTROL

RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202

Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

RADIO EQUIPMENT

System for synchronizing synthesizers of communication systems
[NASA-CASE-GSC-12148-1] c 32 N79-20296

RADIO FREQUENCIES

Helical coaxial resonator RF filter
[NASA-CASE-XGS-02816] c 07 N69-24323

Automatic gain control system
[NASA-CASE-XMS-05307] c 09 N69-24330

Radio frequency shielded enclosure Patent
[NASA-CASE-XMF-09422] c 07 N71-19436

Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

Radio frequency coaxial high pass filter Patent
[NASA-CASE-XGS-01418] c 09 N71-23573

Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266

Signal path series step biased multidevice high efficiency amplifier Patent
[NASA-CASE-GSC-10668-1] c 07 N71-28430

Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569

RF-source resistance meters
[NASA-CASE-NPO-11291-1] c 14 N73-30388

Multichannel logarithmic RF level detector
[NASA-CASE-LAR-11021-1] c 32 N76-14321

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] c 33 N84-16454

Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742

Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

RADIO FREQUENCY DISCHARGE

Electric discharge for treatment of trace contaminants
[NASA-CASE-ARC-10975-1] c 33 N79-15245

RADIO FREQUENCY HEATING

Gyrotrotron transmitting tube
[NASA-CASE-LEW-13429-1] c 33 N83-31952

RADIO FREQUENCY INTERFERENCE

Parametric microwave noise generator Patent
[NASA-CASE-XER-11019] c 09 N71-23598

System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Method and apparatus for measuring distance
[NASA-CASE-MSC-20912-1] c 32 N88-26568

RADIO FREQUENCY SHIELDING

Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Process for making RF shielded cable connector assemblies and the products formed thereby
[NASA-CASE-GSC-11215-1] c 09 N73-28083

RADIO INTERFEROMETERS

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

RADIO PROBING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846

RADIO RECEIVERS

Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775

Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098

Radio frequency arraying method for receivers
[NASA-CASE-NPO-14328-1] c 32 N80-18253

Interferometric locating system
[NASA-CASE-NPO-14173-1] c 04 N80-32359

RADIO RELAY SYSTEMS

Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

RADIO SIGNALS

Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309

Millimeter wave radiometer for radio astronomy Patent
[NASA-CASE-XNP-09832] c 30 N71-23723

RADIO SOURCES (ASTRONOMY)

Conical scan tracking system employing a large antenna
[NASA-CASE-NPO-14009-1] c 32 N79-13214

RADIO STARS

Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

RADIO TELEMETRY

Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001

RADIO TELESCOPES

Antenna grout replacement system
[NASA-CASE-NPO-15202-1] c 27 N83-34043

RADIO TRANSMITTERS

Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194

Aircraft-mounted crash-activated transmitter device
[NASA-CASE-MFS-16609-3] c 03 N76-32140

Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] c 04 N84-27713

Antimultipath communication by injecting tone into null in signal spectrum
[NASA-CASE-NPO-16414-1-CU] c 32 N87-25511

RADIO WAVES
Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

RADIOACTIVE ISOTOPIES
Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

RADIOBIOLOGY
Production of high purity I-123
[NASA-CASE-LEW-10518-1] c 24 N72-33681

RADIOGRAPHY
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613

Method and system for in vivo measurement of bone tissue using a two level energy source
[NASA-CASE-MSC-14276-1] c 52 N77-14737

Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N88-23983

RADIOLOGY
Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-11549-2] c 52 N82-33996

RADIOLYSIS
Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458

RADIOMETERS
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475

Black body cavity radiometer Patent
[NASA-CASE-NPO-10810] c 14 N71-27323

Thermoelectric radiometer utilizing polymer film
[NASA-CASE-ARC-10138-1] c 14 N72-24477

Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409

Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437

Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

Steady state thermal radiometers
[NASA-CASE-MFS-21108-1] c 34 N74-27861

Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] c 35 N84-22931

RADIOSONDES
Induction powered biological radiosonde
[NASA-CASE-ARC-11120-1] c 52 N80-18691

RAIN
Precipitation detector Patent
[NASA-CASE-XLA-02619] c 10 N71-26334

Environmental fog/rain visual display system for aircraft simulators
[NASA-CASE-ARC-11158-1] c 09 N82-24212

RAMJET ENGINES
Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899

Hypersonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168

RAMPS (STRUCTURES)
Automated multi-level vehicle parking system
[NASA-CASE-NPO-13058-1] c 37 N77-22480

RANDOM ACCESS MEMORY
Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491

Hybrid analog-digital associative neural network
[NASA-CASE-NPO-17058-1-CU] c 62 N87-25803

RANDOM LOADS

Fatigue testing device Patent
[NASA-CASE-XLA-02131] c 32 N70-42003

RANDOM NOISE
Noise limiter Patent
[NASA-CASE-NPO-10169] c 10 N71-24844

Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148

Random pulse generator
[NASA-CASE-MSC-14131-1] c 33 N75-19515

Pseudo noise code and data transmission method and apparatus
[NASA-CASE-GSC-12017-1] c 32 N77-30308

Low phase noise oscillator using two parallel connected amplifiers
[NASA-CASE-GSC-13018-1] c 33 N87-21232

RANGE (EXTREMES)
Logarithmic circuit with wide dynamic range
[NASA-CASE-GSC-12145-1] c 33 N78-32339

RANGE AND RANGE RATE TRACKING
Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

RANGE FINDERS
Closed loop ranging system Patent
[NASA-CASE-XNP-01501] c 21 N70-41930

Digital demodulator-correlator
[NASA-CASE-NPO-13982-1] c 32 N79-14267

Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

RANGEFINDING
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Ranging system Patent
[NASA-CASE-NPO-10066] c 09 N71-18598

Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site
[NASA-CASE-LAR-10626-1] c 19 N74-21015

RARE EARTH COMPOUNDS
Didymium hydrate additive to nickel hydroxide electrodes Patent
[NASA-CASE-XGS-03505] c 03 N71-10608

High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455

RARE GASES
Inert gas metallic vapor laser
[NASA-CASE-NPO-13449-1] c 36 N75-32441

Fluidized bed desulfurization
[NASA-CASE-NPO-15924-1] c 25 N85-35253

Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RAREFIED GASES
Magnetically controlled plasma accelerator Patent
[NASA-CASE-XLA-00327] c 25 N71-29184

RATES (PER TIME)
Rate data encoder
[NASA-CASE-LAR-10128-1] c 08 N73-20217

Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

RC CIRCUITS
Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655

RC rate generator for slow speed measurement Patent
[NASA-CASE-XMF-02966] c 10 N71-24863

Transient augmentation circuit for pulse amplifiers Patent
[NASA-CASE-XNP-01068] c 10 N71-28739

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256

RC networks and amplifiers employing the same
[NASA-CASE-XAC-05462-2] c 10 N72-17171

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

Multiloop RC active filter apparatus having low parameter sensitivity with low amplifier gain
[NASA-CASE-ARC-10192] c 09 N72-21245

Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430

Diode-quad bridge circuit means
[NASA-CASE-ARC-10364-3] c 33 N75-19520

REACTION BONDING
Fiber reinforced ceramic material
[NASA-CASE-XLA-04063] c 27 N89-29538

REACTION CONTROL
Voice operated controller Patent
[NASA-CASE-LAR-13452-1] c 31 N71-33160

REACTION KINETICS
Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

REACTION PRODUCTS
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848

REACTION TIME
Pseudonoise code tracking loop
[NASA-CASE-MSC-18035-1] c 32 N81-15179

REACTION WHEELS
Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082

Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

REACTIVITY
Gaseous control system for nuclear reactors
[NASA-CASE-XLE-04599] c 22 N72-20597

REACTOR CORES
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228

REACTOR DESIGN
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501

REACTOR MATERIALS
Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201

REACTOR PHYSICS
Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920

READ-ONLY MEMORY DEVICES
Method and apparatus for operating on companded PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

READERS
Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

READOUT
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864

Plural position switch status and operativeness checker Patent
[NASA-CASE-XLA-08799] c 10 N71-27272

Magneto-optic detection system with noise cancellation
[NASA-CASE-NPO-11954-1] c 35 N78-29421

REAGENTS
Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048

REAL TIME OPERATION
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

Real time moving scene holographic camera system
[NASA-CASE-MFS-21087-1] c 35 N74-17153

Real time, large volume, moving scene holographic camera system
[NASA-CASE-MFS-22537-1] c 35 N75-27328

Carbon monoxide monitor --- using real time operation
[NASA-CASE-MFS-22060-1] c 35 N75-29380

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

Contour detector and data acquisition system for the left ventricular outline
[NASA-CASE-ARC-10985-1] c 52 N79-10724

Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268

System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651

Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348

- Real-time garbage collection for list processing
[NASA-CASE-MSC-20964-1] c 60 N87-14863
- Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301
- Real-time image difference detection using a polarization rotation spatial light modulator
[NASA-CASE-NPO-17144-1-CU] c 74 N88-25305
- Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078
- REATTACHED FLOW**
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- REBREATHING**
Portable breathing system --- a breathing apparatus using a rebreathing system of heat exchangers for carbon dioxide removal
[NASA-CASE-MSC-16182-1] c 54 N80-10799
- RECEIVERS**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
- Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
- Automatic carrier acquisition system
[NASA-CASE-NPO-11628-1] c 07 N73-30113
- Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] c 04 N86-27270
- Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379
- RECIPROICATION**
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- Reciprocating linear motor
[NASA-CASE-GSC-12773-2] c 33 N87-23904
- RECOMBINATION REACTIONS**
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] c 44 N86-25874
- RECONSTRUCTION**
Method and means for recording and reconstructing holograms without use of a reference beam Patent
[NASA-CASE-ERC-10020] c 16 N71-26154
- RECORDING HEADS**
Electromagnetic transducer recording head having a laminated core section and tapered gap
[NASA-CASE-NPO-10711-1] c 35 N77-21392
- RECORDING INSTRUMENTS**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
- Blood pressure measuring system for separating and separately recording dc signal and an ac signal Patent
[NASA-CASE-XMS-06061] c 05 N71-23317
- Helical recorder arrangement for multiple channel recording on both sides of the tape
[NASA-CASE-GSC-10614-1] c 09 N72-11224
- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Measuring probe position recorder
[NASA-CASE-LAR-10806-1] c 35 N74-32877
- RECOVERABILITY**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
- RECOVERABLE LAUNCH VEHICLES**
Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
- Orbiter/launch system
[NASA-CASE-LAR-12250-1] c 14 N81-26161
- RECOVERABLE SPACECRAFT**
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- RECOVERY PARACHUTES**
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
- Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- RECTANGULAR PANELS**
Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- RECTIFIERS**
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
- Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
- Precision rectifier with FET switching means Patent
[NASA-CASE-ARC-10101-1] c 09 N71-33109
- SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
- A dc to ac to dc converter having transistor synchronous rectifiers
[NASA-CASE-GSC-11126-1] c 09 N72-25253
- Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
- RECTUM**
Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875
- REDOX CELLS**
Catalyst surfaces for the chromous/chromic redox couple
[NASA-CASE-LEW-13148-2] c 44 N81-29524
- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344
- Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] c 44 N84-28205
- Negative electrode catalyst for the iron chromium redox energy storage system
[NASA-CASE-LEW-14028-1] c 44 N86-19721
- Method and apparatus for rebalancing a REDOX flow cell system
[NASA-CASE-LEW-14127-1] c 33 N86-20680
- REDUCED GRAVITY**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
- Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Restraint system for ergometer
[NASA-CASE-MFS-21046-1] c 14 N73-27377
- Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283
- Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- Gas particle radiator
[NASA-CASE-LEW-14297-1] c 35 N89-12048
- Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557
- Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- REDUCTION**
Method and apparatus for reducing speckle
[NASA-CASE-LAR-13771-1] c 36 N89-14428
- REDUCTION (CHEMISTRY)**
Production of metal powders
[NASA-CASE-XLE-06461] c 17 N72-22530
- Process for making anhydrous metal halides
[NASA-CASE-LEW-11860-1] c 37 N76-18458
- Curable liquid hydrocarbon prepolymers containing hydroxyl groups and process for producing same
[NASA-CASE-NPO-13137-1] c 27 N80-32514
- Hydrodesulfurization of chlorinized coal
[NASA-CASE-NPO-15304-1] c 25 N83-31743
- REDUNDANCY**
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- REDUNDANT COMPONENTS**
Redundant memory organization Patent
[NASA-CASE-GSC-10564] c 10 N71-29135
- Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- Redundant operation of counter modules
[NASA-CASE-NPO-14162-1] c 60 N81-15706
- REELS**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669
- REENTRY COMMUNICATION**
Electrostatic plasma modulator for space vehicle re-entry communication Patent
[NASA-CASE-XLA-01400] c 07 N70-41331
- Means for communicating through a layer of ionized gases Patent
[NASA-CASE-XLA-01127] c 07 N70-41372
- Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
- REENTRY SHIELDING**
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
- Protected isotope heat source --- for atmospheric reentry protection and heat transmission to spacecraft
[NASA-CASE-LEW-11227-1] c 73 N75-30876
- Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
- Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628
- REENTRY TRAJECTORIES**
Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631
- REENTRY VEHICLES**
Reentry vehicle leading edge Patent
[NASA-CASE-XLA-00165] c 31 N70-33242
- Variable-geometry winged reentry vehicle Patent
[NASA-CASE-XLA-00241] c 31 N70-37986
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Ablation sensor Patent
[NASA-CASE-XLA-01791] c 14 N71-22991
- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
- Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
- Vortex breech high pressure gas generator
[NASA-CASE-LAR-10549-1] c 31 N73-13898
- Three-component ceramic coating for silica insulation
[NASA-CASE-MSC-14270-2] c 27 N76-23426
- Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582
- REFERENCE SYSTEMS**
Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247
- Magnetic heading reference
[NASA-CASE-LAR-11387-2] c 04 N77-19056
- REFINING**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- REFLECTANCE**
Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Optical mirror apparatus Patent
[NASA-CASE-ERC-10001] c 23 N71-24868
- Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766
- Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] c 27 N85-29044
- Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
- REFLECTED WAVES**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Clear air turbulence detector
[NASA-CASE-MFS-21244-1] c 36 N75-15028

Reflected-wave maser --- low noise amplifier
[NASA-CASE-NPO-13490-1] c 36 N76-31512

REFLECTING TELESCOPES

Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969
Wide-angle flat field telescope
[NASA-CASE-GSC-12825-1] c 74 N86-28732

REFLECTION

Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector --- for determining density of gas
[NASA-CASE-ARC-10631-1] c 74 N76-20958
Ranging system which compares an object reflected component of a light beam to a reference component of the light beam
[NASA-CASE-NPO-15865-1] c 74 N85-34629

REFLECTOMETERS

Ellipsoidal mirror reflectometer including means for averaging the radiation reflected from the sample
Patent
[NASA-CASE-XGS-05291] c 23 N71-16341
Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

REFLECTOR ANTENNAS

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

REFLECTORS

Reflector space satellite Patent
[NASA-CASE-XLA-00138] c 31 N70-37981
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Conical reflector antenna
[NASA-CASE-NPO-10303] c 07 N72-22127
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Multi-purpose antenna employing dish reflector with plural coaxial horn feeds
[NASA-CASE-NPO-11264] c 07 N72-25174
Multiple reflection conical microwave antenna
[NASA-CASE-NPO-11661] c 07 N73-14130
Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] c 74 N86-20125
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Self-clamping arc light reflector for welding torch
[NASA-CASE-MFS-29207-1] c 74 N87-25843

REFRACTIVITY

The 2 deg/90 deg laboratory scattering photometer --- particulate refractivity in hydrosols
[NASA-CASE-GSC-12088-1] c 74 N78-13874
Chromatically corrected virtual image visual display --- reducing eye strain in flight simulators
[NASA-CASE-LAR-12251-1] c 74 N80-27185
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Photorefractor ocular screening system
[NASA-CASE-MFS-26011-1-SB] c 52 N87-24874
Dynamic range compression/expansion of light beams by photorefractive crystals
[NASA-CASE-NPO-17140-1-CU] c 74 N89-14077

REFRACTORY COATINGS

Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Method for repair of thin glass coatings --- on space shuttle orbiter tiles
[NASA-CASE-KSC-11097-1] c 27 N82-33520
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266

REFRACTORY MATERIALS

High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
High temperature resistant cermet and ceramic compositions
[NASA-CASE-NPO-13690-2] c 27 N79-14213
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides
[NASA-CASE-LEW-23169-2] c 26 N81-16209
Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Apparatus for accurately preloading auger attachment means for frangible protective material
[NASA-CASE-MSC-18791-1] c 37 N83-36482
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N89-13620

REFRACTORY METALS

Radiant heater having formed filaments Patent
[NASA-CASE-XLE-00387] c 33 N70-34812
Method of producing refractory bodies having controlled porosity Patent
[NASA-CASE-LEW-10393-1] c 17 N71-15468
Multilayer porous ionizer Patent
[NASA-CASE-XNP-04338] c 17 N71-23046
Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Method of producing refractory composites containing tantalum carbide, hafnium carbide, and hafnium boride Patent
[NASA-CASE-XLE-03940] c 18 N71-26153
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Refractory metal base alloy composites
[NASA-CASE-XLE-03940-2] c 17 N72-28536
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
Method of making an apertured casting --- using duplicate mold
[NASA-CASE-LEW-11169-1] c 37 N76-23570
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] c 27 N84-22748

REFRIGERATING

Helium refrigerator and method for decontaminating the refrigerator
[NASA-CASE-NPO-10634] c 23 N72-25619
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625

REFRIGERATING MACHINERY

Refrigeration apparatus
[NASA-CASE-NPO-10309] c 15 N69-23190
Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725
Stirling cycle engine and refrigeration systems
[NASA-CASE-NPO-13613-1] c 37 N76-29590

Cycling Joule Thomson refrigerator
[NASA-CASE-NPO-15251-1] c 31 N83-31897
Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
Magnetically actuated compressor
[NASA-CASE-GSC-12799-1] c 31 N85-21404
Oxygen chemisorption cryogenic refrigerator
[NASA-CASE-NPO-16734-1-CU] c 31 N88-14223

REFRIGERATORS

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
Helium refrigerator
[NASA-CASE-NPO-13435-1] c 31 N76-14284
Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
Ten degree Kelvin hydride refrigerator
[NASA-CASE-NPO-16393-1-CU] c 31 N87-21159
Krypton based adsorption type cryogenic refrigerator
[NASA-CASE-NPO-17334-1-CU] c 31 N88-23917
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

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Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

REGENERATION (ENGINEERING)

Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Regenerative braking system Patent
[NASA-CASE-XMF-01096] c 10 N71-16030
Free-piston regenerative hot gas hydraulic engine
[NASA-CASE-LEW-12274-1] c 37 N80-31790
Cryogenic regenerator including saran-carbon heat conduction matrix
[NASA-CASE-NPO-17291-1-CU] c 34 N88-23946

REGENERATION (PHYSIOLOGY)

Implantable electrical device
[NASA-CASE-GSC-12560-1] c 52 N82-29863
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027

REGENERATIVE COOLING

Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method of making a regeneratively cooled combustion chamber Patent
[NASA-CASE-XLE-00150] c 28 N70-41818
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992
Combustion chamber Patent
[NASA-CASE-XLE-04857] c 28 N71-23968
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N71-13417

REGENERATIVE FUEL CELLS

Electrolytically regenerative hydrogen-oxygen fuel cell Patent
[NASA-CASE-XLE-04526] c 03 N71-11052

REGENERATORS

Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577

REGISTERS (COMPUTERS)

Variable digital processor including a register for shifting and rotating bits in either direction Patent
[NASA-CASE-GSC-10186] c 08 N71-33110
Priority interrupt system --- comprised of four registers
[NASA-CASE-NPO-13067-1] c 60 N76-18800

REINFORCED PLASTICS

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330
Reinforced structural plastics
[NASA-CASE-LEW-10199-1] c 27 N74-23125

REINFORCEMENT (STRUCTURES)

Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370

REINFORCEMENT RINGS

Tube coupling device
[NASA-CASE-MFS-25964-2] c 37 N87-22977

REINFORCING FIBERS

Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
Method for producing fiber reinforced metallic composites Patent
[NASA-CASE-XLE-03925] c 18 N71-22894
Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100
Method of preparing graphite reinforced aluminum composite
[NASA-CASE-MFS-21077-1] c 24 N75-28135
Crystalline polyimides --- reinforcing fibers for high temperature composites and adhesives as well as flame retardation
[NASA-CASE-LAR-12099-1] c 27 N80-16158
Composition and method for making polyimide resin-reinforced fabric
[NASA-CASE-LEW-12933-1] c 27 N81-19296
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] c 24 N84-11213
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

RELAXATION OSCILLATORS

Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882

RELAY SATELLITES

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

RELEASING

Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601
Quick attach and release fluid coupling assembly Patent
[NASA-CASE-XKS-01985] c 15 N71-10782
Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600
Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Delayed simultaneous release mechanism
[NASA-CASE-GSC-10814-1] c 03 N73-20039
Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983
Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154

RELIABILITY ANALYSIS

Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
Integrated circuit reliability testing
[NASA-CASE-NPO-17393-1-CU] c 33 N89-29679

RELIABILITY ENGINEERING

Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Inspection gage for boss Patent
[NASA-CASE-XMF-04966] c 14 N71-17658
Valving device for automatic refilling in cryogenic liquid systems
[NASA-CASE-NPO-11177] c 15 N72-17453
Electrical connector
[NASA-CASE-NPO-10694] c 09 N72-20200
Inherent redundancy electric heater
[NASA-CASE-MFS-21462-1] c 33 N74-14935
Hollow rolling element bearings
[NASA-CASE-LEW-11087-3] c 37 N74-21064
Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769
Lightweight piston
[NASA-CASE-LAR-13150-1] c 24 N87-27742

RELIEF MAPS

Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711

RELIEF VALVES

Relief valve
[NASA-CASE-XMS-05894-1] c 15 N69-21924

Zero gravity separator Patent

[NASA-CASE-XLE-00586] c 15 N71-15968
Redundant hydraulic control system for actuators
[NASA-CASE-MFS-20944] c 15 N73-13466
Prosthetic urinary sphincter
[NASA-CASE-MFS-23717-1] c 52 N81-25660
Ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-1] c 52 N83-21785

REMOTE CONTROL

Electromagnetic mirror drive system
[NASA-CASE-XLA-03724] c 14 N69-27461
Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
Bimetallic power controlled actuator
[NASA-CASE-XNP-09776] c 09 N69-39929
Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
Three-axis finger tip controller for switches Patent
[NASA-CASE-XAC-02405] c 09 N71-16089
Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
Laser communication system for controlling several functions at a location remote to the laser
[NASA-CASE-LAR-10311-1] c 16 N73-16536
Cooperative multi-axis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
Remotely operable articulated manipulator
[NASA-CASE-MFS-22707-1] c 37 N76-15457
Remote manipulator system
[NASA-CASE-MFS-22022-1] c 37 N76-15460
Remote lightning monitor system
[NASA-CASE-KSC-11031-1] c 33 N79-11315
Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117
Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
Remotely controllable mixing system
[NASA-CASE-MFS-28153-1] c 31 N86-32589
Remotely operable peristaltic pump
[NASA-CASE-MFS-28059-1] c 37 N86-32738
Radial and torsionally controlled magnetic bearing
[NASA-CASE-GSC-12957-1] c 37 N87-17038
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Magnetic attachment mechanism
[NASA-CASE-MSC-21095-1] c 37 N89-12866
Remotely controllable real-time optical processor
[NASA-CASE-NPO-16750-1-CU] c 74 N89-14078

REMOTE HANDLING

Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
[NASA-CASE-LAR-10634-1] c 37 N74-18123
Anthropomorphic master/slave manipulator system
[NASA-CASE-ARC-10756-1] c 54 N77-32721
Controller arm for a remotely related slave arm
[NASA-CASE-ARC-11052-1] c 37 N79-28551
Apparatus for sequentially transporting containers
[NASA-CASE-MFS-23846-1] c 37 N82-32731
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828
Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398

REMOTE MANIPULATOR SYSTEM

Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985
Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118

REMOTE SENSING

Method and apparatus for calibrating the ionosphere and application to surveillance of geophysical events
[NASA-CASE-NPO-15430-1] c 46 N85-21846
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

REMOTE SENSORS

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
Flow angle sensor and read out system Patent
[NASA-CASE-XLE-04503] c 14 N71-24864
Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326
Clear air turbulence detector
[NASA-CASE-ERC-10081] c 14 N72-28437
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160
Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498
Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639

REMOTELY PILOTED VEHICLES

Rotating launch device for a remotely piloted aircraft
[NASA-CASE-ARC-10979-1] c 09 N77-19076

REMOVAL

Catalyst bed removing tool Patent
[NASA-CASE-XFR-00811] c 15 N70-36901
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781

REPEATERS

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

REPLACING

Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

RESCUE OPERATIONS

Backpack carrier Patent
[NASA-CASE-LAR-10056] c 05 N71-12351
Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Method of locating persons in distress --- by using radar imagery from radar reflectors
[NASA-CASE-LAR-11390-1] c 32 N77-21267
Apparatus and method of capturing an orbiting spacecraft
[NASA-CASE-MSC-20979-1] c 37 N87-22985

RESEARCH AIRCRAFT

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

RESEARCH AND DEVELOPMENT

Tube fabricating process
[NASA-CASE-LAR-10203-1] c 15 N72-16330

RESEARCH VEHICLES

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

RESIDUAL STRESS
Miniature stress transducer Patent
[NASA-CASE-XNP-02983] c 14 N71-21091
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120

RESILIENCE
Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

RESIN BONDING
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of manufacture of bonded fiber flywheel --- fiberglass-epoxy
[NASA-CASE-MFS-23674-1] c 24 N81-29163

RESIN MATRIX COMPOSITES
Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
Method of tracing contour patterns for use in making gradual contour resin matrix composites
[NASA-CASE-ARC-11246-1] c 31 N83-34073
Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560
High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-2] c 27 N86-27451
Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112
Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
Processable polyimide adhesive and matrix composite resin
[NASA-CASE-LAR-14101-1] c 27 N89-23692
Semipenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539

RESINS
Modified polyurethane foams for fuel-fire Patent
[NASA-CASE-ARC-10098-1] c 06 N71-24739
Bonding or repairing process
[NASA-CASE-MSC-12357] c 15 N73-12489
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
Composite lamination method
[NASA-CASE-LAR-12019-1] c 24 N78-17150
Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-1] c 27 N83-31854
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042

RESISTANCE
Method of making a perspiration resistant biopotential electrode
[NASA-CASE-MSC-90153-2] c 05 N72-25120
Variable resistance constant tension and lubrication device --- using oil-saturated leather wiper
[NASA-CASE-KSC-10723-1] c 37 N75-13265
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933

RESISTANCE HEATING
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

RESISTORS
High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Resistive anode image converter
[NASA-CASE-HQN-10876-1] c 33 N76-27473
Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670

RESOLUTION
Analog-to-digital conversion system Patent
[NASA-CASE-XAC-00404] c 08 N70-40125
Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
[NASA-CASE-NPO-17249-1-CU] c 32 N89-28676
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975

RESOLVERS
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355
Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055

RESONANCE
Optically selective, acoustically resonant gas detecting transducer
[NASA-CASE-ARC-10639-1] c 35 N78-13400
Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
Arrangement for damping the resonance in a laser diode
[NASA-CASE-NPO-15980-1] c 36 N85-30305
Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234

RESONANT FREQUENCIES
Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent
[NASA-CASE-XAC-02807] c 09 N71-23021
Apparatus for detecting the amount of material in a resonant cavity container Patent
[NASA-CASE-XNP-02500] c 18 N71-27397
Parasitic suppressing circuit
[NASA-CASE-ERC-10403-1] c 10 N73-26228
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Microbalance --- for measuring particle mass
[NASA-CASE-MSC-11242] c 35 N78-17358
Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] c 33 N84-22887
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241

RESONANT VIBRATION
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104

RESONATORS
High-Q bandpass resonators utilizing bandstop resonator pairs
[NASA-CASE-GSC-10990-1] c 09 N73-26195
Low noise cryogenic dielectric resonator oscillator
[NASA-CASE-NPO-17157-1-CU] c 33 N88-26596
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817

RESOURCE ALLOCATION
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

RESPIRATION
Method and system for respiration analysis Patent
[NASA-CASE-XFR-08403] c 05 N71-11202

RESPIRATORS
Respiration monitor
[NASA-CASE-FRC-10012] c 14 N72-17329

RESPIRATORY RATE
Gas low pressure low flow rate metering system Patent
[NASA-CASE-FRC-10022] c 12 N71-26546
Respiratory analysis system and method
[NASA-CASE-MSC-13436-1] c 05 N73-32015

Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPIROMETERS
Metabolic analyzer --- for measuring metabolic rate and breathing dynamics of human beings
[NASA-CASE-MFS-21415-1] c 52 N74-20728

RESPONSE TIME (COMPUTERS)
Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

RESPONSES
Frequency division multiplex technique
[NASA-CASE-KSC-10521] c 07 N73-20176

RESTARTABLE ROCKET ENGINES
Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Small rocket engine Patent
[NASA-CASE-XLE-00685] c 28 N70-41992

RESUSCITATION
Resuscitation apparatus Patent
[NASA-CASE-XMS-01115] c 05 N70-39922

RETAINING
Floating nut retention system
[NASA-CASE-MSC-16938-1] c 37 N80-23653
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

RETRARDERS (DEVICES)
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293

RETRARDING
Ablative resin Patent
[NASA-CASE-XLE-05913] c 33 N71-14032

RETICLES
Optical tracker having overlapping reticles on parallel axes Patent
[NASA-CASE-XGS-05715] c 23 N71-16100
Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630
Star tracking reticles
[NASA-CASE-GSC-11188-1] c 14 N73-32320
Formation of star tracking reticles
[NASA-CASE-GSC-11188-3] c 74 N74-20008
Star scanner --- with a reticle with a pair of slits having differing separation
[NASA-CASE-GSC-11569-1] c 89 N74-30886

RETINAL IMAGES
Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

RETRACTABLE EQUIPMENT
Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183
CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

RETROFIRING
Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499
Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

RETROREFLECTION
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Over-under double-pass interferometer
[NASA-CASE-NPO-13999-1] c 35 N78-18395
Method and apparatus for Doppler frequency modulation of radiation
[NASA-CASE-NPO-14524-1] c 32 N80-24510
Remote object configuration/orientation determination
[NASA-CASE-NPO-17436-1-CU] c 35 N89-13764

RETROREFLECTORS
Interferometer --- high resolution
[NASA-CASE-NPO-14448-1] c 74 N81-29963
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

RETROCKET ENGINES
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645

REUSABLE HEAT SHIELDING
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448

REUSABLE ROCKET ENGINES

- Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same
[NASA-CASE-LAR-13486-1] c 16 N87-29582

REUSABLE SPACECRAFT

- Recoverable single stage spacecraft booster Patent
[NASA-CASE-XMF-01973] c 31 N70-41588
Space shuttle vehicle and system
[NASA-CASE-MS-C-12433] c 31 N73-14854
Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

REUSE

- Silica reusable surface insulation
[NASA-CASE-ARC-10721-1] c 27 N76-22376
Reusable captive blind fastener
[NASA-CASE-MS-C-18742-1] c 37 N82-26673
Cryogenic insulation system
[NASA-CASE-LAR-13506-1] c 27 N89-12741

REVERSE OSMOSIS

- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361

REVERSED FLOW

- Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059
Reversal electron attachment ionizer for detection of trace species
[NASA-CASE-NPO-17596-1-CU] c 35 N89-28795

REYNOLDS NUMBER

- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183

REYNOLDS STRESS

- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517

RHENIUM

- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

RHEOMETERS

- Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

RHOMBOIDS

- Rhomboid prism pair for rotating the plane of parallel light beams
[NASA-CASE-ARC-11311-1] c 74 N83-13978

RIBBONS

- Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
[NASA-CASE-NPO-13969-1] c 76 N79-23798
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Means for growing ribbon crystals without subjecting the crystals to thermal shock-induced strains
[NASA-CASE-NPO-14298-1] c 76 N80-32244
Method of growing a ribbon crystal particularly suited for facilitating automated control of ribbon width
[NASA-CASE-NPO-14295-1] c 76 N80-32245
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
- RIBLETS**
Combined riblet and lebu drag reduction system
[NASA-CASE-LAR-13286-1] c 02 N88-14071
- RIBOFLAVIN**
Flavin coenzyme assay
[NASA-CASE-GSC-10565-1] c 06 N72-25149

RIBS (SUPPORTS)

- Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

RICE

- Modification of the physical properties of freeze-dried rice
[NASA-CASE-MS-C-13540-1] c 05 N72-33096

RIDING QUALITY

- Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

RIGID ROTORS

- Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029

RIGID STRUCTURES

- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130

RIGID WINGS

- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863

RIMS

- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152

RING CURRENTS

- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463

RING STRUCTURES

- Reversible ring counter employing cascaded single SCR stages Patent
[NASA-CASE-XGS-01473] c 09 N71-10673
Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Laser system with an antiresonant optical ring
[NASA-CASE-HQN-10844-1] c 36 N75-19653
Helmet latching and attaching ring
[NASA-CASE-XMS-04670] c 54 N78-17678
Collapsible corrugated horn antenna
[NASA-CASE-LAR-11745-1] c 32 N80-29539
Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091
Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618
Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416

RING WINGS

- Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315

RIPPLES

- Ripple indicator
[NASA-CASE-KSC-10162] c 09 N72-11225

RIVETS

- Printed circuit board with bellows rivet connection Patent
[NASA-CASE-XNP-05082] c 15 N70-41960

ROBOT DYNAMICS

- Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-C-21476-1] c 37 N90-17137

ROBOTICS

- Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] c 37 N86-20789
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Passively activated prehensile digit for a robotic end effector
[NASA-CASE-NPO-16766-1-CU] c 37 N89-13785
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750

ROBOTS

- Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
Robust high-performance control for robotic manipulators
[NASA-CASE-NPO-17785-1-CU] c 37 N89-28846
Distributed proximity sensor system
[NASA-CASE-NPO-17275-1-CU] c 37 N89-29750
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MS-C-21476-1] c 37 N90-17137

ROCKET ENGINE CASES

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Ion engine casing construction and method of making same Patent
[NASA-CASE-XNP-06942] c 28 N71-23293
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143

ROCKET ENGINE CONTROL

- Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124

ROCKET ENGINE DESIGN

- Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Rocket engine Patent
[NASA-CASE-XLE-00342] c 28 N70-37980
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Ion thruster with a combination keeper electrode and electron baffle
[NASA-CASE-NPO-11880] c 28 N73-24783
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Dual-fuel, dual-mode rocket engine
[NASA-CASE-LAR-13773-1] c 20 N90-19298

ROCKET ENGINES

- Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
Ion thruster cathode Patent Application
[NASA-CASE-LEW-10814-1] c 28 N70-35422
Injector-valve device Patent
[NASA-CASE-XLE-00303] c 15 N70-36535
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Passively regulated water electrolysis rocket engine Patent
[NASA-CASE-XGS-08729] c 28 N71-14044
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Laminar flow enhancement Patent
[NASA-CASE-NPO-10122] c 12 N71-17631
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
Purge device for thrust engines Patent
[NASA-CASE-XMS-04826] c 28 N71-28849
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Ion thruster magnetic field control
[NASA-CASE-LEW-10835-1] c 28 N72-22771
Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Magneto-plasma-dynamic arc thruster
[NASA-CASE-LEW-11180-1] c 25 N73-25760
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919
Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296
Ion beam thruster shield
[NASA-CASE-LEW-12082-1] c 20 N77-10148
Anode for ion thruster
[NASA-CASE-LEW-12048-1] c 20 N77-20162
General purpose rocket furnace
[NASA-CASE-MFS-23460-1] c 12 N79-26075
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256
Low loss injector for liquid propellant rocket engines
[NASA-CASE-MFS-25989-1] c 20 N87-14420

- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724
Extended temperature range rocket injector
[NASA-CASE-LEW-14846-1] c 20 N90-15130
- ROCKET EXHAUST**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- ROCKET FIRING**
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
- ROCKET FLIGHT**
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
- ROCKET LAUNCHING**
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Controlled release device Patent
[NASA-CASE-XKS-03338] c 15 N71-24043
- ROCKET LININGS**
Heat exchanger and method of making --- rocket lining
[NASA-CASE-LEW-12441-2] c 34 N80-24573
- ROCKET NOZZLES**
Gimbale, partially submerged rocket nozzle Patent
[NASA-CASE-XMF-01544] c 28 N70-34162
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Self-sealing, unbonded, rocket motor nozzle closure Patent
[NASA-CASE-XLA-02651] c 28 N70-41967
Automatically deploying nozzle exit cone extension Patent
[NASA-CASE-XLE-01640] c 31 N71-15637
Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
Collapsible nozzle extension for rocket engines Patent
[NASA-CASE-MFS-11497] c 28 N71-16224
Apparatus and method for protecting a photographic device Patent
[NASA-CASE-NPO-10174] c 14 N71-18465
Multislot film cooled pyrolytic graphite rocket nozzle Patent
[NASA-CASE-XNP-04389] c 28 N71-20942
Prestressed refractory structure Patent
[NASA-CASE-XNP-02888] c 18 N71-21068
Swirling flow nozzle Patent
[NASA-CASE-XNP-03692] c 28 N71-24321
Method and device for cooling Patent
[NASA-CASE-HQN-00938] c 33 N71-29053
Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Nozzle fabrication technique
[NASA-CASE-MSC-21299-1] c 20 N88-24684
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- ROCKET OXIDIZERS**
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
- ROCKET PROPELLANTS**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
Bipropellant injector
[NASA-CASE-XNP-09461] c 28 N72-23809
- ROCKET TEST FACILITIES**
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- ROCKET THRUST**
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Electrostatic thruster with improved insulators Patent
[NASA-CASE-XLE-01902] c 28 N71-10574
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

ROCKET VEHICLES

- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Support apparatus for dynamic testing Patent
[NASA-CASE-XMF-01772] c 11 N70-41677
Alleviation of divergence during rocket launch Patent
[NASA-CASE-XLA-00256] c 31 N71-15663
Technique for control of free-flight rocket vehicles Patent
[NASA-CASE-XLA-00937] c 31 N71-17691
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398
High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

ROCKET-BORNE INSTRUMENTS

- Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432

ROCKETS

- Hydrogen fire detection system with logic circuit to analyze the spectrum of temporal variations of the optical spectrum
[NASA-CASE-MFS-13130] c 10 N72-17173

ROCKS

- Rock drill for recovering samples
[NASA-CASE-XNP-07478] c 14 N69-21923
Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706

RODS

- Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
Quasi-containerless glass formation method and apparatus
[NASA-CASE-MFS-28090-1] c 27 N87-21111
Lightning discharge protection rod
[NASA-CASE-LAR-13470-1] c 03 N88-14083

ROLL

- Roll alignment detector
[NASA-CASE-GSC-10514-1] c 14 N72-20379

ROLLER BEARINGS

- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Low mass rolling element for bearings
[NASA-CASE-LEW-11087-1] c 15 N73-30458
Method of making rolling element bearings
[NASA-CASE-LEW-11087-2] c 37 N74-15128
Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

ROLLERS

- Method of improving the reliability of a rolling element system Patent
[NASA-CASE-XLE-02999] c 15 N71-16052
Load regulating latch
[NASA-CASE-MSC-19535-1] c 37 N77-32499
Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

ROLLING CONTACT LOADS

- Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189

ROLLING MOMENTS

- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

ROOM TEMPERATURE

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39895

ROTARY GYROSCOPES

- Closed loop fiber optic rotation sensor
[NASA-CASE-NPO-16558-1-CU] c 74 N87-23259

ROTARY STABILITY

- Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Lubricated journal bearing
[NASA-CASE-LEW-11076-3] c 37 N75-30562
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082

- Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332

ROTARY WING AIRCRAFT

- Aircraft control system
[NASA-CASE-ERC-10439] c 02 N73-19004
Swashplate control system
[NASA-CASE-ARC-11633-1] c 08 N87-23631
High lift, low pitching moment airfoils
[NASA-CASE-LAR-13215-1] c 02 N89-14224

ROTARY WINGS

- Variable geometry rotor system
[NASA-CASE-LAR-10557] c 02 N72-11018
Hingeless helicopter rotor with improved stability
[NASA-CASE-ARC-10807-1] c 05 N77-17029
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107
Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400

ROTATING BODIES

- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
Laser apparatus for removing material from rotating objects Patent
[NASA-CASE-MFS-11279] c 16 N71-20400
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Annular momentum control device used for stabilization of space vehicles and the like
[NASA-CASE-LAR-11051-1] c 15 N76-14158
Axially and radially controllable magnetic bearing
[NASA-CASE-GSC-11551-1] c 37 N76-18459
Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112
Rotatable mass for a flywheel
[NASA-CASE-MFS-23051-1] c 37 N79-10422
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] c 37 N84-28082
Airborne tracking synphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492

ROTATING CYLINDERS

- Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

ROTATING DISKS

- Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Scanning aspect sensor employing an apertured disc and a commutator
[NASA-CASE-XGS-08266] c 14 N69-27432
Redundant disc
[NASA-CASE-LEW-12496-1] c 07 N78-33101
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310

ROTATING ELECTRICAL MACHINES

- Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
Direct current motor with stationary armature and field Patent
[NASA-CASE-XGS-05290] c 09 N71-25999
Constant frequency output two stage induction machine systems Patent
[NASA-CASE-ERC-10065] c 09 N71-27364

ROTATING ENVIRONMENTS

- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373
Rotating space station simulator Patent
[NASA-CASE-XLA-03127] c 11 N71-10776

ROTATING GENERATORS

- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813

Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828

ROTATING MIRRORS
Retrodirective modulator Patent
[NASA-CASE-GSC-10062] c 14 N71-15605
Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880
Method for generating ultra-precise angles Patent
[NASA-CASE-XGS-04173] c 19 N71-26674
Method and apparatus for optically monitoring the angular position of a rotating mirror
[NASA-CASE-GSC-11353-1] c 74 N74-21304
Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

ROTATING SHAFTS
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Anemometer with braking mechanism Patent
[NASA-CASE-XMF-05224] c 14 N71-23726
Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Two component bearing Patent
[NASA-CASE-XLA-00013] c 15 N71-29136
Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Ergometer calibrator --- for any ergometer utilizing rotating shaft
[NASA-CASE-MFS-21045-1] c 35 N75-15932
Fluid seal for rotating shafts
[NASA-CASE-LEW-11676-1] c 37 N76-22541
Cyclical bi-directional rotary actuator
[NASA-CASE-GSC-11883-1] c 37 N77-19458
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
Rotary electric device
[NASA-CASE-GSC-12138-1] c 33 N79-20314
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360
Clutchless multiple drive source for output shaft
[NASA-CASE-ARC-11325-1] c 37 N82-22496
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787

ROTATION
Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
Mechanical actuator Patent
[NASA-CASE-XGS-04548] c 15 N71-24045
Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Atmospheric autorotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N88-24944
Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842
Rotary control lock
[NASA-CASE-NPO-17453-1-CU] c 37 N89-13787
Controlled sample orientation and rotation in an acoustic levitator
[NASA-CASE-NPO-17086-1-CU] c 35 N89-14422
Hollow fiber clinostat: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
Acoustic controlled rotation and orientation
[NASA-CASE-NPO-16995-1-CU] c 71 N90-12289

ROTOR AERODYNAMICS
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

ROTOR BLADES

Non-destructive method for applying and removing instrumentation on helicopter rotor blades
[NASA-CASE-LAR-11201-1] c 35 N78-24515
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057

ROTOR BLADES (TURBOMACHINERY)
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] c 02 N84-28732

ROTOR LIFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTOR SPEED

Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904

ROTORCRAFT AIRCRAFT

Constant lift rotor for a heavier than air craft
[NASA-CASE-ARC-11045-1] c 05 N79-17847

ROTORS

Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00085] c 28 N70-39895
Angular position and velocity sensing apparatus Patent
[NASA-CASE-XGS-05680] c 14 N71-17585
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Detent servo motor Patent
[NASA-CASE-XNP-06936] c 15 N71-24695
Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Magnetic field control --- electromechanical torquing device
[NASA-CASE-MFS-23828-1] c 33 N82-26569
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Swashplate control system
[NASA-CASE-NPO-11633-1] c 08 N87-23631
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841

RUBBER

Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

RUBBER COATINGS

Intumescent paint containing nitrile rubber
[NASA-CASE-ARC-10196-1] c 18 N73-13562

RUBY

Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

RUBY LASERS

Laser coolant and ultraviolet filter
[NASA-CASE-MFS-20180] c 16 N72-12440

RUNWAY ALIGNMENT

Magnetic position detection method and apparatus
[NASA-CASE-ARC-10179-1] c 21 N72-22619

RUNWAY CONDITIONS

Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUNWAY LIGHTS

Runway light Patent
[NASA-CASE-XLA-00119] c 11 N70-33329
Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

RUNWAYS

Airplane runway performance monitoring system
[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242

RUPTURING

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Fully articulated four-point-bend loading fixture
[NASA-CASE-LEW-14776-1] c 37 N90-15445

S**SABOT PROJECTILES**

Hypervelocity gun --- using both electric and chemical energy for projectile propulsion
[NASA-CASE-XLE-03186-1] c 09 N79-21084

SAFETY

Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745

SAFETY DEVICES

Pressure suit tie-down mechanism Patent
[NASA-CASE-XMS-00784] c 05 N71-12335
Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
Protective device for machine and metalworking tools Patent
[NASA-CASE-XLE-01092] c 15 N71-22797
Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Restraint torso for a pressurized suit
[NASA-CASE-MSC-12397-1] c 05 N72-25119
Totally confined explosive welding --- apparatus to reduce noise level and protect personnel during explosive bonding
[NASA-CASE-LAR-10941-1] c 37 N74-21057
Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421
Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982
Timing control system
[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

SAFETY FACTORS

Safety flywheel --- using flexible materials energy storage
[NASA-CASE-HQN-10888-1] c 44 N79-14527

SAHA EQUATIONS

Cosmic dust analyzer
[NASA-CASE-MSC-13802-2] c 35 N76-15431

SALT BATHS

Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311

SAMARIUM

Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292

SAMPLERS

Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SAMPLES

Plural output optometric sample cell and analysis system
[NASA-CASE-NPO-10233-1] c 74 N78-33913
Mobile sampler for use in acquiring samples of terrestrial atmospheric gases
[NASA-CASE-NPO-15220-1] c 45 N83-25217

SAMPLING

Sample collecting impact bit Patent
[NASA-CASE-XNP-01412] c 15 N70-42034
Fluid sample collector Patent
[NASA-CASE-XMS-06767-1] c 14 N71-20435
Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081

- Rock sampling --- apparatus for controlling particle size
[NASA-CASE-XNP-10007-1] c 46 N74-23068
- Rock sampling --- method for controlling particle size distribution
[NASA-CASE-XNP-09755] c 46 N74-23069
- Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
- Automatic biowaste sampling
[NASA-CASE-MS-C-14640-1] c 54 N76-14804
- Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
- Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MS-C-16841-1] c 34 N79-24285
- Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849
- Moisture content and gas sampling device
[NASA-CASE-MS-C-18866-1] c 35 N85-29213
- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190
- Solid sorbent air sampler
[NASA-CASE-MS-C-20653-1] c 35 N86-26595
- Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
- Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
- High-pressure promoted combustion chamber
[NASA-CASE-MS-C-21470-1] c 09 N90-16771
- SANDWICH STRUCTURES**
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Meteoroid sensing apparatus having a coincidence network connected to a pair of capacitors Patent
[NASA-CASE-XLE-01246] c 14 N71-10797
- Method of making inflatable honeycomb Patent
[NASA-CASE-XLA-03492] c 15 N71-22713
- Convoluting device for forming convolutions and the like Patent
[NASA-CASE-XNP-05297] c 15 N71-23811
- Composite sandwich lattice structure
[NASA-CASE-LAR-11898-1] c 24 N78-10214
- Low density bismaleimide-carbon microballoon composites
[NASA-CASE-ARC-11040-1] c 24 N79-16915
- Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- Multilayer thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
- SAPPHIRE**
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143
- SATELLITE ANTENNAS**
- Antenna system using parasitic elements and two driven elements at 90 deg angle fed 180 deg out of phase Patent
[NASA-CASE-XLA-00414] c 07 N70-38200
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341
- Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
- SATELLITE ATTITUDE CONTROL**
- Photosensitive device to detect bearing deviation Patent
[NASA-CASE-XNP-00438] c 21 N70-35089
- Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
- Satellite despersion device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- Attitude control and damping system for spacecraft Patent
[NASA-CASE-XLA-02551] c 21 N71-21708
- Gravity gradient attitude control system Patent
[NASA-CASE-GSC-10555-1] c 21 N71-27324
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Combination automatic-starting electrical plasma torch and gas shutoff valve --- for satellite attitude control
[NASA-CASE-XLE-10717] c 37 N75-29426
- Attitude control system
[NASA-CASE-MFS-22787-1] c 15 N77-10113
- Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- SATELLITE COMMUNICATION**
- Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621
- Satellite communication system Patent
[NASA-CASE-XNP-02389] c 07 N71-28900
- Ground plane interference elimination by passive element
[NASA-CASE-NPO-16632-1-CU] c 32 N87-15390
- SATELLITE CONTROL**
- Stabilization of gravity oriented satellites Patent
[NASA-CASE-XAC-01591] c 31 N71-17729
- SATELLITE DESIGN**
- Inflation system for balloon type satellites Patent
[NASA-CASE-XGS-03351] c 31 N71-16081
- SATELLITE INSTRUMENTS**
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- SATELLITE NETWORKS**
- Satellite interface synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149
- SATELLITE OBSERVATION**
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- SATELLITE ORBITS**
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- SATELLITE ORIENTATION**
- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297
- Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Analog spatial maneuver computer
[NASA-CASE-GSC-10880-1] c 08 N72-11172
- SATELLITE PERTURBATION**
- Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
- SATELLITE POWER TRANSMISSION**
- Microwave power transmission beam safety system
[NASA-CASE-NPO-14224-1] c 33 N80-18287
- SATELLITE ROTATION**
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016
- Apparatus for changing the orientation and velocity of a spinning body traversing a path Patent
[NASA-CASE-HQN-00936] c 31 N71-29050
- Magnetic spin reduction system for free spinning objects
[NASA-CASE-MFS-25966-1] c 16 N86-26352
- SATELLITE TELEVISION**
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- SATELLITE TRACKING**
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472
- SATELLITE TRANSMISSION**
- Asynchronous, multiplexing, single line transmission and recovery data system --- for satellite use
[NASA-CASE-NPO-13321-1] c 32 N75-26195
- SATELLITE-BORNE INSTRUMENTS**
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- SATELLITE-BORNE PHOTOGRAPHY**
- Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- SATURABLE REACTORS**
- Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- SATURATION**
- Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747
- SAWS**
- Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
- SAWTOOTH WAVEFORMS**
- Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- SCANNERS**
- Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Reaction wheel scanner Patent
[NASA-CASE-XGS-02629] c 14 N71-21082
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Method and apparatus for mapping the sensitivity of the face of a photodetector specifically a PMT
[NASA-CASE-LAR-10320-1] c 09 N72-23172
- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
- Fast scan control for deflection type mass spectrometers
[NASA-CASE-LAR-11428-1] c 35 N74-34857
- Electronically scanned pressure sensor module with in situ calibration capability
[NASA-CASE-LAR-12230-1] c 35 N79-14347
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MS-C-18627-1] c 74 N82-30071
- Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
- Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
- Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] c 35 N84-22934
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247
- Atmospheric autotrotating imaging device
[NASA-CASE-NPO-17390-1-CU] c 35 N88-24944
- SCANNING**
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189
- Position determination systems --- using orbital antenna scan of celestial bodies
[NASA-CASE-MS-C-12593-1] c 17 N76-21250
- Magnetometer with a miniature transducer and automatic scanning
[NASA-CASE-LAR-11617-2] c 35 N78-32397
- System and method for character recognition
[NASA-CASE-NPO-11337-1] c 74 N81-19896
- SCATTERING CROSS SECTIONS**
- Method and means for helium/hydrogen ratio measurement by alpha scattering
[NASA-CASE-NPO-14079-1] c 25 N80-20334
- Method and apparatus for sensor fusion
[NASA-CASE-MS-C-21334-1] c 32 N89-25360
- SCENE ANALYSIS**
- Simulator scene display evaluation device
[NASA-CASE-ARC-11504-1] c 09 N86-32447
- SCHLIENEN PHOTOGRAPHY**
- System and method for obtaining wide screen Schlieren photographs
[NASA-CASE-NPO-14174-1] c 74 N79-20856

SCHMIDT CAMERAS

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

SCHMIDT TELESCOPES

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

SCHOOLS

Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205

SCHOTTKY DIODES

High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Thin wire pointing method
[NASA-CASE-NPO-15789-1] c 31 N83-19947
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
GaAs Schottky barrier photo-responsive device and method of fabrication
[NASA-CASE-GSC-12816-1] c 76 N86-20150
Laterally stacked Schottky diodes for infrared sensor applications
[NASA-CASE-NPO-17426-1-CU] c 33 N90-10329

SCOOPS

Aeroflexible structures
[NASA-CASE-XLA-06095] c 01 N69-39981

SCORING

Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469

SCRAMBLING (COMMUNICATION)

Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

SCREWS

Electromechanical control actuator system Patent
[NASA-CASE-ERC-10022] c 15 N71-26635
Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
Low noise lead screw positioner
[NASA-CASE-NPO-15617-1] c 35 N87-21304

SCRUBBERS

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588
Nebulization reflux concentrator
[NASA-CASE-LAR-13254-1CU] c 35 N86-29174

SEA ICE

A technique for breaking ice in the path of a ship
[NASA-CASE-LAR-10815-1] c 16 N72-22520

SEA STATES

Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

SEA SURFACE TEMPERATURE

Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723

SEALERS

Pressure garment joint Patent
[NASA-CASE-XMS-09636] c 05 N71-12344
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Bonded elastomeric seal for electrochemical cells Patent
[NASA-CASE-XGS-02631] c 03 N71-23006
Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Polyimides of ether-linked aryl tetracarboxylic dianhydrides
[NASA-CASE-MFS-22355-1] c 23 N76-15268
High performance channel injection sealant invention abstract
[NASA-CASE-ARC-14408-1] c 27 N82-33523

SEALING

Foil seal
[NASA-CASE-XLE-05130] c 15 N69-21362
Sealed battery gas manifold construction Patent
[NASA-CASE-XNP-03378] c 03 N71-11051
Sealing device for an electrochemical cell Patent
[NASA-CASE-XGS-02630] c 03 N71-22974
Sealing member and combination thereof and method of producing said sealing member Patent
[NASA-CASE-XMS-01625] c 15 N71-23022
Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451

Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633
Optical pressure sealing coupling apparatus
[NASA-CASE-MFS-29348-1] c 74 N89-25689
O-ring gasket test fixture
[NASA-CASE-MFS-28376-1] c 14 N89-28546
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
High temperature, flexible, thermal barrier seal
[NASA-CASE-LEW-14672-1] c 37 N90-15444

SEALS (STOPPERS)

Spacecraft battery seals
[NASA-CASE-XGS-03864] c 15 N69-24320
Flexible seal for valves Patent
[NASA-CASE-XLE-00101] c 15 N70-33376
Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
Foil seal Patent
[NASA-CASE-XLE-05130-2] c 15 N71-19570
Storage container for electronic devices Patent
[NASA-CASE-MFS-20075] c 09 N71-26133
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Spiral groove seal --- for rotating shaft
[NASA-CASE-XLE-10326-4] c 37 N74-15125
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Method of forming shrink-fit compression seal
[NASA-CASE-LAR-11563-1] c 37 N77-23482
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Retractable environmental seal
[NASA-CASE-MFS-23646-1] c 37 N79-22474
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Fluid pressure balanced seal
[NASA-CASE-XGS-01286-1] c 37 N79-33469
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Circumferential shaft seal
[NASA-CASE-LEW-12119-1] c 37 N80-28711
Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures
[NASA-CASE-MSC-18134-1] c 37 N81-15363
Modified face seal for positive film stiffness
[NASA-CASE-LEW-12989-1] c 37 N82-12442
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-12368-2] c 37 N82-26674
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-12368-1] c 27 N82-29453
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] c 27 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-12369-2] c 37 N84-22957
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Dual motion valve with single motion input
[NASA-CASE-MFS-28058-1] c 37 N87-21332
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786
High temperature flexible seal
[NASA-CASE-LEW-14695-1] c 37 N89-28830
Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

SEAMS (JOINTS)

Traveling sealer for contoured table Patent
[NASA-CASE-XLA-01494] c 15 N71-24164
Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623
Method of making pressure tight seal for super alloy
[NASA-CASE-LAR-10170-1] c 37 N74-11301

SEAT BELTS

Shoulder harness and lap belt restraint system
[NASA-CASE-ARC-10519-2] c 05 N75-25915

SEATS

Seat cushion to provide realistic acceleration cues to aircraft simulator pilot
[NASA-CASE-LAR-12149-2] c 09 N79-31228
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] c 03 N84-33394
Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

SECONDARY EMISSION

Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587

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[NASA-CASE-LEW-11076-2] c 37 N74-32921

SECURITY

Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Portable appliance security apparatus
[NASA-CASE-GSC-12399-1] c 33 N81-25299
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SEGMENTS

Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597

SEISMIC WAVES

Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794
Seismic vibration source
[NASA-CASE-NPO-14112-1] c 46 N79-22679
Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

SEISMOGRAPHS

Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

SELECTORS

Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862

SELF ADAPTIVE CONTROL SYSTEMS

Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785

SELF ALIGNMENT

Electro-optical alignment control system Patent
[NASA-CASE-XMF-00908] c 14 N70-40238
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

SELF ERECTING DEVICES

Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
Foldable conduit Patent
[NASA-CASE-XLE-00620] c 32 N70-41579
Self-erecting reflector Patent
[NASA-CASE-XGS-09190] c 31 N71-16102
Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373

SELF FOCUSING

Focal axis resolver for offset reflector antennas
[NASA-CASE-GSC-12630-1] c 33 N83-36355

SELF LUBRICATING MATERIALS

Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
Self-lubricating gears and other mechanical parts Patent
[NASA-CASE-MFS-14971] c 15 N71-24984

Method of making bearing material
[NASA-CASE-LEW-11930-3] c 24 N80-33482

SELF LUBRICATION

Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
Carbide-fluoride-silver self-lubricating composite
[NASA-CASE-LEW-14196-2] c 37 N87-25585

SELF MANEUVERING UNITS

Hand-held self-manuevering unit Patent
[NASA-CASE-XMS-05304] c 05 N71-12336
Personal propulsion unit Patent
[NASA-CASE-MFS-20130] c 28 N71-27585

SELF PROPAGATION

Optical frequency waveguide Patent
[NASA-CASE-HQN-10541-1] c 07 N71-26291

SELF SEALING

Modification of one man life raft
[NASA-CASE-LAR-10241-1] c 54 N74-14845
Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573

SELF TESTS

Self-testing and repairing computer Patent
[NASA-CASE-NPO-10567] c 08 N71-24633

SEMICONDUCTOR DEVICES

Test fixture for pellet-like electrical elements
[NASA-CASE-XNP-06032] c 09 N69-21926
Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent
[NASA-CASE-XGS-00381] c 09 N70-34819
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Voltage tunable Gunn-type microwave generator Patent
[NASA-CASE-XER-07894] c 09 N71-18721
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pneumatic oscillator Patent
[NASA-CASE-LEW-10345-1] c 10 N71-25899
Method and apparatus for detecting gross leaks Patent
[NASA-CASE-ERC-10033] c 14 N71-26672
Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
Method of manufacturing semiconductor devices using refractory dielectrics
[NASA-CASE-XER-08476-1] c 26 N72-17820
Fabrication of single crystal film semiconductor devices
[NASA-CASE-ERC-10222] c 09 N72-22199
Electrical insulating layer process
[NASA-CASE-LEW-10489-1] c 15 N72-25447
Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
Semiconductor transducer device
[NASA-CASE-ERC-10087-2] c 14 N72-31446
Hermetically sealed semiconductor
[NASA-CASE-GSC-10791-1] c 15 N73-14469
Process for fabricating SiC semiconductor devices
[NASA-CASE-LEW-12094-1] c 76 N76-25049
Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
Apparatus for measuring semiconductor device resistance
[NASA-CASE-NPO-14424-1] c 33 N80-32650
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

Pyroelectric detector arrays
[NASA-CASE-LAR-12363-2] c 33 N83-24763
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Inelastic tunnel diodes
[NASA-CASE-LEW-13833-1] c 33 N85-21492
Low defect, high purity crystalline layers grown by selective deposition
[NASA-CASE-NPO-15813-1] c 76 N85-30922
Method and apparatus for measuring minority carrier lifetime in a direct band-gap semiconductor
[NASA-CASE-NPO-16337-1-CU] c 33 N87-22894

SEMICONDUCTOR DIODES

Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

SEMICONDUCTOR JUNCTIONS

Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
Pressure sensitive transducers Patent
[NASA-CASE-ERC-10087] c 14 N71-27334
Semiconductor surface protection material
[NASA-CASE-ERC-10339-1] c 18 N73-30532
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
Method of measuring field funneling and range straggling in semiconductor charge-collecting junctions
[NASA-CASE-NPO-16584-1-CU] c 76 N86-25269
Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

SEMICONDUCTOR LASERS

Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
Fiber optic sensing system
[NASA-CASE-LEW-14795-1] c 74 N90-15733

SEMICONDUCTORS (MATERIALS)

Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616
High efficiency multivibrator Patent
[NASA-CASE-XAC-00942] c 10 N71-16042
Method of making impurity-type semiconductor electrical contacts Patent
[NASA-CASE-XMF-01016] c 26 N71-17818
Method of electrolytically binding a layer of semiconductors together Patent
[NASA-CASE-XNP-01959] c 26 N71-23043
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Infrared detectors
[NASA-CASE-LAR-10728-1] c 14 N73-12445
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
Method for the preparation of inorganic single crystal and polycrystalline electronic materials
[NASA-CASE-XLE-02545-1] c 76 N79-21910
Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] c 44 N84-23019
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112
Method for determining the point of zero zeta potential of semiconductor
[NASA-CASE-LAR-12893-1] c 76 N85-30923
Method of making macrocrystalline or single crystal semiconductor material
[NASA-CASE-NPO-15904-1] c 76 N86-28760
Method for growing low defect, high purity crystalline layers utilizing lateral overgrowth of a patterned mask
[NASA-CASE-NPO-15813-2] c 76 N87-15882
Total immersion crystal growth
[NASA-CASE-NPO-15800-2] c 76 N87-23286

Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace
[NASA-CASE-LAR-13597-1-CU] c 25 N87-23713
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
Liquid encapsulated float zone process and apparatus
[NASA-CASE-MFS-28144-1] c 76 N88-24545
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076

SENSITIVITY

Active RC networks
[NASA-CASE-ARC-10042-2] c 10 N72-11256
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836

SENSITOMETRY

Condition sensor system and method
[NASA-CASE-MSC-14805-1] c 54 N78-32720

SENSORS

Bonding method in the manufacture of continuous regression rate sensor devices
[NASA-CASE-LAR-10337-1] c 24 N75-30260
Medical subject monitoring systems --- multichannel monitoring systems
[NASA-CASE-MSC-14180-1] c 52 N76-14757
Trace water sensor
[NASA-CASE-NPO-15722-1] c 35 N85-29212

SENSORY PERCEPTION

Tactile sensing means for prosthetic limbs
[NASA-CASE-MFS-16570-1] c 05 N73-32013

SEPARATED FLOW

Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
Double hinged flap Patent
[NASA-CASE-XLA-01290] c 02 N70-42016
Mixture separation cell Patent
[NASA-CASE-XMS-02952] c 18 N71-20742
Flow separation detector
[NASA-CASE-ARC-11046-1] c 35 N78-14364
Method of forming a multiple layer dielectric and a hot film sensor therewith
[NASA-CASE-LAR-13678-1] c 76 N88-25355
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

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[NASA-CASE-XLA-08645] c 15 N69-21465
Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Separator Patent
[NASA-CASE-XLA-00415] c 15 N71-16079
Water separating system Patent
[NASA-CASE-XMS-13052] c 14 N71-20427
Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
Air removal device
[NASA-CASE-XLA-08914] c 15 N73-12492
Centrifugal lyophobic separator
[NASA-CASE-LAR-10194-1] c 34 N74-30608
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method and apparatus for fluffing, separating, and cleaning fibers
[NASA-CASE-LAR-11224-1] c 37 N76-18456
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Low gravity phase separator
[NASA-CASE-MSC-14773-1] c 35 N78-12390
Automatic multiple-sample applicator and electrophoresis apparatus
[NASA-CASE-ARC-10991-1] c 25 N78-14104
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Inorganic-organic separators for alkaline batteries
[NASA-CASE-LEW-12649-1] c 44 N78-25530
Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
[NASA-CASE-LEW-12358-1] c 44 N79-17313
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345
In situ self cross-linking of polyvinyl alcohol battery separators
[NASA-CASE-LEW-12972-1] c 44 N79-25481
Partial interlaminar separation system for composites
[NASA-CASE-LAR-12065-1] c 24 N81-14000

- Polyvinyl alcohol battery separator containing inert filler
--- alkaline batteries
[NASA-CASE-LEW-13556-1] c 44 N81-27615
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
Process of treating cellulosic membrane and alkaline with membrane separator
[NASA-CASE-GSC-10019-1] c 44 N82-24641
Separator for alkaline batteries and method of making same
[NASA-CASE-GSC-10350-1] c 44 N82-24642
Separator for alkaline electric cells and method of making
[NASA-CASE-GSC-10017-1] c 44 N82-24643
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644
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[NASA-CASE-GSC-10349-1] c 44 N82-24645
Aqueous alkali metal hydroxide insoluble cellulose ether membrane
[NASA-CASE-XGS-05584-1] c 25 N82-29370
Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Electrophoresis device
[NASA-CASE-MFS-25426-1] c 25 N83-10126
Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Alkaline battery containing a separator of a cross-linked copolymer of vinyl alcohol and unsaturated carboxylic acid
[NASA-CASE-LEW-13102-1] c 33 N85-29144
- SEQUENCING**
Synchronous counter Patent
[NASA-CASE-XGS-02440] c 08 N71-19432
Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418
Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
Mechanical sequencer
[NASA-CASE-MSC-19536-1] c 37 N77-22482
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- SEQUENTIAL ANALYSIS**
Binary coded sequential acquisition ranging system
[NASA-CASE-NPO-11194] c 08 N72-25209
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
- SEQUENTIAL COMPUTERS**
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751
- SEQUENTIAL CONTROL**
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Binary sequence detector Patent
[NASA-CASE-XNP-05415] c 08 N71-12505
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- SERUMS**
Reduction of blood serum cholesterol
[NASA-CASE-NPO-12119-1] c 52 N75-15270
- SERVICE LIFE**
Electro-mechanical sine/cosine generator
[NASA-CASE-LAR-10503-1] c 09 N72-21248
Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] c 07 N84-22560
Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261
- SERVOAMPLIFIERS**
Pneumatic amplifier Patent
[NASA-CASE-MSC-12121-1] c 15 N71-27147
- SERVOCONTROL**
Monopulse system with an electronic scanner
[NASA-CASE-XGS-05582] c 07 N69-27460
Proportional controller Patent
[NASA-CASE-XAC-03392] c 03 N70-41954
Light intensity modulator controller Patent
[NASA-CASE-XMS-04300] c 09 N71-19479
- Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Energy limiter for hydraulic actuators Patent
[NASA-CASE-ARC-10131-1] c 15 N71-27754
Digital servo controller --- for rotating antenna shaft
[NASA-CASE-KSC-10769-1] c 33 N74-29556
Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
Phase-locked servo system --- for synchronizing the rotation of slip ring assembly
[NASA-CASE-MFS-22073-1] c 33 N75-13139
Servo-controlled intravitral microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Autonomous navigation system --- gyroscopic pendulum for air navigation
[NASA-CASE-ARC-11257-1] c 04 N81-21047
System and method for moving a probe to follow movements of tissue
[NASA-CASE-NPO-15197-1] c 52 N83-25346
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] c 33 N84-14424
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
- SERVO MECHANISMS**
Interferometer servo system Patent
[NASA-CASE-NPO-10300] c 14 N71-17662
Line following servosystem Patent
[NASA-CASE-XAC-00001] c 15 N71-28952
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Ball screw linear actuator
[NASA-CASE-NPO-11222] c 15 N72-25456
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Hydraulic drain means for servo-systems
[NASA-CASE-NPO-10316-1] c 37 N77-22479
Actuator mechanism
[NASA-CASE-GSC-11883-2] c 37 N78-31426
Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407
Electrical servo actuator bracket --- fuel control valves on jet engines
[NASA-CASE-FRC-11044-1] c 37 N81-33483
Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205
Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- SERVOMOTORS**
Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
Transistor servo system including a unique differential amplifier circuit Patent
[NASA-CASE-XMF-05195] c 10 N71-24861
Cyclically operable optical shutter
[NASA-CASE-NPO-10758] c 14 N73-14427
Rotary actuator
[NASA-CASE-NPO-10680] c 31 N73-14855
Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563
Load positioning system with gravity compensation
[NASA-CASE-ARC-11525-1] c 37 N86-27629
- SEWAGE TREATMENT**
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
- SHADES**
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SHAFTS (MACHINE ELEMENTS)**
Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Elastic universal joint Patent
[NASA-CASE-XNP-00416] c 15 N70-36947
Apparatus for absorbing and measuring power Patent
[NASA-CASE-XLE-00720] c 14 N70-40201
Two-axis controller Patent
[NASA-CASE-XFR-04104] c 03 N70-42073
Ratchet mechanism Patent
[NASA-CASE-MFS-12805] c 15 N71-17805
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Spiral groove seal
[NASA-CASE-XLE-10326-2] c 15 N72-29488
- High speed hybrid bearing comprising a fluid bearing and a rolling bearing connected in series
[NASA-CASE-LEW-11152-1] c 15 N73-32359
Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474
Hole cutter --- drill bits and rotating shaft
[NASA-CASE-MFS-22649-1] c 37 N75-25186
Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
Counter pumping debris excluder and separator --- gas turbine shaft seals
[NASA-CASE-LEW-11855-1] c 07 N78-25090
Sequencing device utilizing planetary gear set
[NASA-CASE-MSC-19514-1] c 37 N79-20377
Shaft seal assembly for high speed and high pressure applications
[NASA-CASE-LEW-11873-1] c 37 N79-22475
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
Hot gas engine with dual crankshafts
[NASA-CASE-NPO-14221-1] c 37 N81-25370
Circumferential shaft seal
[NASA-CASE-LEW-12119-2] c 37 N81-26447
Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Angular measurement system
[NASA-CASE-MFS-25825-1] c 31 N86-29055
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842
- SHAKERS**
Planar oscillatory stirring apparatus
[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598
- SHALE OIL**
In-situ laser retorting of oil shale
[NASA-CASE-LEW-12217-1] c 43 N78-14452
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
Solar heated oil shale pyrolysis process
[NASA-CASE-NPO-16392-1] c 25 N86-25428
- SHALES**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
Coal-shale interface detector
[NASA-CASE-MFS-23720-1] c 43 N80-23711
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- SHAPE CONTROL**
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363
Method and circuit for shaping laser output pulses
[NASA-CASE-LAR-14203-1] c 36 N89-28817
- SHAPE MEMORY ALLOYS**
Memory metal actuator
[NASA-CASE-NPO-15960-1] c 37 N86-19604
Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- SHAPED CHARGES**
Coupling for linear shaped charge Patent
[NASA-CASE-XLA-00189] c 33 N70-36846
Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- SHAPERS**
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Tube dimpling tool Patent
[NASA-CASE-XMS-06876] c 15 N71-21536
Dielectric molding apparatus Patent
[NASA-CASE-LAR-10121-1] c 15 N71-26721
- SHAPES**
Stripline feed for a microstrip array of patch elements with teardrop shaped probes
[NASA-CASE-NPO-17548-1-CU] c 32 N90-16104
- SHARKS**
Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
- SHARPNESS**
Method of forming a sharp edge on an optical device
[NASA-CASE-GSC-12348-1] c 74 N80-24149
- SHEAR CREEP**
Instrument for measuring torsional creep and recovery Patent
[NASA-CASE-XLE-01481] c 14 N71-10781

SHEAR FLOW

Shear modulated fluid amplifier Patent
[NASA-CASE-MFS-10412] c 12 N71-17578

SHEAR PROPERTIES

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

SHEAR STRESS

Fatigue-resistant shear pin
[NASA-CASE-XLA-09122] c 15 N69-27505
Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
Bonded joint and method --- for reducing peak shear stress in adhesive bonds
[NASA-CASE-LAR-10900-1] c 37 N74-23064
Delamination test apparatus and method
[NASA-CASE-LAR-13985-1] c 24 N89-28586
Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534

SHEARING

Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900

SHELL ANODES

Ring-cusp ion thruster with shell anode
[NASA-CASE-LEW-13881-1] c 20 N85-21256

SHELLS (STRUCTURAL FORMS)

Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860

SHIELDING

Spherical shield Patent
[NASA-CASE-XNP-01855] c 15 N71-28937
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
Trailer shield assembly for a welding torch
[NASA-CASE-MFS-29260-1] c 37 N90-19602

SHIFT REGISTERS

Binary to binary-coded-decimal converter Patent
[NASA-CASE-XNP-00432] c 08 N70-35423
Linear three-tap feedback shift register Patent
[NASA-CASE-NPO-10351] c 08 N71-12503
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Current steering commutator
[NASA-CASE-NPO-10743] c 08 N72-21199
Feedback shift register with states decomposed into cycles of equal length
[NASA-CASE-NPO-11082] c 08 N72-22167
MOD 2 sequential function generator for multibit binary sequence
[NASA-CASE-NPO-10636] c 08 N72-25210
Pseudonoise sequence generators with three tap linear feedback shift registers
[NASA-CASE-NPO-11406] c 08 N73-12175
A m-ary linear feedback shift register with binary logic
[NASA-CASE-NPO-11868] c 10 N73-20254
Counting digital filters
[NASA-CASE-NPO-11821-1] c 08 N73-26175
Event sequence detector
[NASA-CASE-NPO-11703-1] c 10 N73-32144
Method and apparatus for decoding compatible convolutional codes
[NASA-CASE-MSC-14070-1] c 32 N74-32598
Nonlinear nonsingular feedback shift registers
[NASA-CASE-NPO-13451-1] c 33 N76-14373
Selective data segment monitoring system --- using shift registers
[NASA-CASE-ARC-10899-1] c 60 N77-19760
Digital data reformatter/deserializer
[NASA-CASE-NPO-13676-1] c 60 N79-20751

SHOCK ABSORBERS

Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159
Frangible tube energy dissipation Patent
[NASA-CASE-XLA-00754] c 15 N70-34850
Shock absorbing support and restraint means Patent
[NASA-CASE-XMS-01240] c 05 N70-35152
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Landing pad assembly for aerospace vehicles Patent
[NASA-CASE-XMF-02853] c 31 N70-36654
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Double-acting shock absorber Patent
[NASA-CASE-XMF-01045] c 15 N70-40354
Articulated multiple couch assembly Patent
[NASA-CASE-MSC-11253] c 05 N71-12343

Shock absorber Patent
[NASA-CASE-XMS-03722] c 15 N71-21530
Impact energy absorber Patent
[NASA-CASE-XLA-01530] c 14 N71-23092
Low onset rate energy absorber
[NASA-CASE-MSC-12279] c 15 N72-17450
Impact energy absorbing system utilizing fractureable material
[NASA-CASE-NPO-10671] c 15 N72-20443
Translatory shock absorber for attitude sensors
[NASA-CASE-MFS-22905-1] c 19 N76-22284
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Variable response load limiting device
[NASA-CASE-LAR-12801-1] c 37 N88-23982

SHOCK LOADS

Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612

SHOCK MEASURING INSTRUMENTS

Semiconductor projectile impact detector
[NASA-CASE-MFS-23008-1] c 35 N78-18390

SHOCK RESISTANCE

Method and apparatus for shock protection Patent
[NASA-CASE-XLA-00482] c 15 N70-36409
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHOCK TUBES

Means for controlling rupture of shock tube diaphragms Patent
[NASA-CASE-XAC-00731] c 11 N71-15960
Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
Annular arc accelerator shock tube
[NASA-CASE-NPO-13528-1] c 09 N77-10071

SHOCK WAVE INTERACTION

Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563

SHOCK WAVE LUMINESCENCE

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896

SHOCK WAVE PROFILES

Shock-layer radiation measurement
[NASA-CASE-XAC-02970] c 14 N69-39896
Adapter for mounting a microphone flush with the external surface of the skin of a pressurized aircraft
[NASA-CASE-FRC-11072-1] c 05 N83-27975

SHOCK WAVES

Shock tube powder dispersing apparatus Patent
[NASA-CASE-XLE-04946] c 17 N71-24911
Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439
Synthesis of superconducting compounds by explosive compaction of powders
[NASA-CASE-MFS-20861-1] c 18 N73-32437
Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431

SHOES

Jet shoes
[NASA-CASE-XLA-08491] c 05 N69-21380

SHORT CIRCUITS

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Analog to digital converter tester Patent
[NASA-CASE-XLA-06713] c 14 N71-28991
Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008

SHOT PEENING

Method of peening and portable peening gun
[NASA-CASE-MFS-23047-1] c 37 N76-18454

SHOULDERS

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620
Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

SHROUDED NOZZLES

Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121

SHROUDED TURBINES

Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Gas path seal
[NASA-CASE-NPO-12131-3] c 37 N80-18400
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978

SHROUDS

Composite powerplant and shroud therefor Patent
[NASA-CASE-XLA-01043] c 28 N71-10780
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Active clearance control system for a turbomachine
[NASA-CASE-LEW-12938-1] c 07 N82-32366
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957

SHUTTERS

High speed shutter --- electrically actuated ribbon loop for shuttering optical or fluid passageways
[NASA-CASE-ARC-10516-1] c 70 N74-21300

SHUTTLE DERIVED VEHICLES

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SIDE INLETS

Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288

SIDE BANDS

Phase-locked loop with sideband rejecting properties Patent
[NASA-CASE-XNP-02723] c 07 N70-41680
Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567

SIDELobe REDUCTION

Dual mode horn antenna Patent
[NASA-CASE-NPO-01057] c 07 N71-15907
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304

SIGNAL ANALYSIS

Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Method and apparatus for a single channel digital communications system --- synchronization of received PCM signal by digital correlation with reference signal
[NASA-CASE-NPO-11302-2] c 32 N74-10132
Differential phase shift keyed signal resolver
[NASA-CASE-MSC-14066-1] c 33 N74-27705
Correlation type phase detector --- with time correlation integrator for frequency multiplexed signals
[NASA-CASE-GSC-11744-1] c 33 N75-26243
Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372
Digital plus analog output encoder
[NASA-CASE-GSC-12115-1] c 62 N76-31946
Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
Acoustic emission frequency discrimination
[NASA-CASE-MSC-20467-1] c 35 N88-23966

SIGNAL ANALYZERS

System for monitoring signal amplitude ranges
[NASA-CASE-XMS-04061-1] c 09 N69-39885
Sampled data controller Patent
[NASA-CASE-GSC-10554-1] c 08 N71-29033
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
Electronic optical transfer function analyzer
[NASA-CASE-MFS-21672-1] c 74 N76-19935
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SIGNAL DETECTION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
Method of detecting impending saturation of magnetic cores
[NASA-CASE-ERC-10089] c 23 N72-17747

- Anti-multipath digital signal detector
[NASA-CASE-LAR-11827-1] c 32 N77-10392
- Multiplex rate digital command detection system with range clean-up capability
[NASA-CASE-NPO-13753-1] c 32 N77-20289
- Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
- Apparatus and method for stabilized phase detection for binary signal tracking loops
[NASA-CASE-MSC-16461-1] c 33 N79-11313
- Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
- SIGNAL DETECTORS**
- Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
- Pulse amplitude and width detector Patent
[NASA-CASE-XMF-06519] c 09 N71-12519
- System for monitoring the presence of neutrals in a stream of ions Patent
[NASA-CASE-XNP-02592] c 24 N71-20518
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Coal-shale interface detection system
[NASA-CASE-MFS-23720-2] c 43 N80-14423
- Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
- Method and apparatus for detecting laminar flow separation and reattachment
[NASA-CASE-LAR-13952-1-SB] c 34 N90-19534
- SIGNAL DISTORTION**
- Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
- SIGNAL ENCODING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Self-calibrating threshold detector
[NASA-CASE-MSC-16370-1] c 35 N81-19427
- Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583
- SIGNAL GENERATORS**
- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
- Signal generator
[NASA-CASE-XNP-05612] c 09 N69-21468
- Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
- Array phasing device Patent
[NASA-CASE-ERC-10046] c 10 N71-18722
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Controllers Patent
[NASA-CASE-XMS-07487] c 15 N71-23255
- Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798
- Adaptive system and method for signal generation Patent
[NASA-CASE-GSC-11367] c 10 N71-26374
- Voltage dropout sensor Patent
[NASA-CASE-KSC-10020] c 10 N71-27338
- System for controlling the operation of a variable signal device
[NASA-CASE-NPO-11064] c 07 N72-11150
- Digital function generator
[NASA-CASE-NPO-11104] c 08 N72-22165
- Hall effect transducer
[NASA-CASE-LAR-10620-1] c 09 N72-25255
- Gunn-type solid state devices
[NASA-CASE-XER-07895] c 26 N72-25679
- Audio frequency marker system
[NASA-CASE-NPO-11147] c 14 N72-27408
- Digital servo control of random sound test excitation --- in reverberant acoustic chamber
[NASA-CASE-NPO-11623-1] c 71 N74-31148
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519
- Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582
- NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
[NASA-CASE-ARC-10802-1] c 35 N75-30502
- Twin-capacitive shaft angle encoder with analog output signal
[NASA-CASE-ARC-10897-1] c 33 N77-31404
- Apparatus for providing a servo drive signal in a high-speed stepping interferometer
[NASA-CASE-NPO-13569-2] c 35 N79-14348
- Versatile LDV burst simulator
[NASA-CASE-LAR-11859-1] c 35 N79-14349
- Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555
- Frequency translating phase conjugation circuit for active retrodirective antenna array --- microwave transmission
[NASA-CASE-NPO-14536-1] c 32 N81-14185
- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
- Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
- Combinational logic for generating gate drive signals for phase control rectifiers
[NASA-CASE-MFS-25208-1] c 33 N83-10345
- Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953
- Magnetic heading reference
[NASA-CASE-LAR-12638-1] c 04 N84-14132
- Brushless DC motor control system responsive to control signals generated by a computer or the like
[NASA-CASE-NPO-16420-1] c 33 N86-20681
- SIGNAL MEASUREMENT**
- Amplifier for measuring low-level signals in the presence of high common mode voltage
[NASA-CASE-MFS-25868-1] c 33 N86-20670
- SIGNAL MIXING**
- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Baseband signal combiner for large aperture antenna array
[NASA-CASE-NPO-14641-1] c 32 N81-29308
- SIGNAL PROCESSING**
- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
- Correlation function apparatus Patent
[NASA-CASE-XNP-00746] c 07 N71-21476
- Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174
- Feedback integrator with grounded capacitor Patent
[NASA-CASE-XAC-10607] c 10 N71-23669
- Signal processing apparatus for multiplex transmission Patent
[NASA-CASE-NPO-10388] c 07 N71-24622
- Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742
- Electronic scanning of 2-channel monopulse patterns Patent
[NASA-CASE-GSC-10299-1] c 09 N71-24804
- Remodulator filter Patent
[NASA-CASE-NPO-10198] c 09 N71-24806
- Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865
- Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866
- Phase multiplying electronic scanning system Patent
[NASA-CASE-NPO-10302] c 10 N71-26142
- Variable frequency nuclear magnetic resonance spectrometer Patent
[NASA-CASE-XNP-09830] c 14 N71-26266
- Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
- Digital pulse width selection circuit Patent
[NASA-CASE-XLA-07788] c 09 N71-29139
- Phase shift circuit apparatus
[NASA-CASE-ARC-10269-1] c 10 N72-16172
- Contourograph system for monitoring electrocardiograms
[NASA-CASE-MSC-13407-1] c 10 N72-20225
- Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
- Logarithmic function generator utilizing an exponentially varying signal in an inverse manner
[NASA-CASE-ERC-10267] c 09 N72-23173
- Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
- Data processor with conditionally supplied clock signals
[NASA-CASE-GSC-10975-1] c 08 N73-13187
- Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Digital to analog conversion apparatus
[NASA-CASE-MSC-12458-1] c 08 N73-32081
- Fluid pressure amplifier and system
[NASA-CASE-LAR-10868-1] c 33 N74-11050
- Low level signal limiter
[NASA-CASE-XLE-04791] c 32 N74-22096
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Apparatus and method for processing Korotkov sounds --- for blood pressure measurement
[NASA-CASE-MSC-13999-1] c 52 N74-26626
- Pulse stretcher for narrow pulses
[NASA-CASE-MSC-14130-1] c 33 N74-32711
- Continuous Fourier transform method and apparatus --- for the analysis of simultaneous analog signal components
[NASA-CASE-ARC-10466-1] c 60 N75-13539
- Signal conditioning circuit apparatus --- with constant input impedance
[NASA-CASE-ARC-10348-1] c 33 N75-19518
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485
- Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429
- Compact bi-phase pulse coded modulation decoder
[NASA-CASE-KSC-10834-1] c 33 N76-14371
- Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366
- System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
- Three phase full wave dc motor decoder
[NASA-CASE-GSC-11824-1] c 33 N77-26386
- Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131
- Analog to digital converter for two-dimensional radiant energy array computers
[NASA-CASE-GSC-11839-3] c 60 N77-32731
- Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
- Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Bit error rate measurement above and below bit rate tracking threshold
[NASA-CASE-MSC-12743-1] c 32 N79-10263
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Electrochemical detection device --- for use in microbiology
[NASA-CASE-LAR-11922-1] c 25 N79-24073
- Scannable beam forming interferometer antenna array system
[NASA-CASE-GSC-12365-1] c 32 N80-28578
- System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584
- CCD correlated quadruple sampling processor
[NASA-CASE-NPO-14426-1] c 33 N81-27396
- Interleaving device
[NASA-CASE-GSC-12111-2] c 33 N81-29342
- Reconfiguring redundancy management
[NASA-CASE-MSC-18498-1] c 60 N82-29013
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539
- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323
- Interferometric angle monitor
[NASA-CASE-GSC-12614-1] c 74 N83-32577
- Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] c 07 N84-22559
- Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] c 60 N84-28492
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Optical stereo video signal processor
[NASA-CASE-MFS-25752-1] c 74 N86-21348
- Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

- Processing circuit with asymmetry corrector and convolutional encoder for digital data
[NASA-CASE-MSC-20187-1] c 33 N87-25531
Method and apparatus for non-destructive testing of temper embrittlement in steels
[NASA-CASE-LAR-13817-1] c 26 N88-29012
Doppler-corrected differential detection system
[NASA-CASE-NPO-16987-1-CU] c 32 N88-30001
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N88-30105
Frequency domain laser velocimeter signal processor
[NASA-CASE-LAR-13552-1-CU] c 33 N89-14385
Digital carrier demodulator employing components working beyond normal limits
[NASA-CASE-NPO-17628-1-CU] c 32 N89-28684
Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
Fiber optic frequency transfer link
[NASA-CASE-NPO-17703-1-CU] c 74 N89-29191
Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608
Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
Phase ambiguity resolution for offset QPSK modulation systems
[NASA-CASE-NPO-17853-1-CU] c 32 N90-16975
Method and apparatus for positioning a robotic end effector
[NASA-CASE-MSC-21476-1] c 37 N90-17137
Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408
Efficient detection and signal parameter estimation with application to high dynamic GPS receiver
[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379
- SIGNAL RECEPTION**
Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Diversity receiving system with diversity phase lock Patent
[NASA-CASE-XGS-01222] c 10 N71-20841
Signal detection and tracking apparatus Patent
[NASA-CASE-XGS-03502] c 10 N71-20852
Optimum predetection diversity receiving system Patent
[NASA-CASE-XGS-00740] c 07 N71-23098
Decoder system Patent
[NASA-CASE-NPO-10118] c 07 N71-24741
Antenna array phase quadrature tracking system Patent
[NASA-CASE-MSC-12205-1] c 07 N71-27056
Electricity measurement devices employing liquid crystalline materials
[NASA-CASE-ERC-10275] c 26 N72-25680
Filter for third order phase locked loops
[NASA-CASE-NPO-11941-1] c 10 N73-27171
Ferroluicid solenoid
[NASA-CASE-NPO-11738-1] c 09 N73-30185
Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391
Faraday rotation measurement method and apparatus
[NASA-CASE-NPO-14839-1] c 35 N82-15381
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] c 32 N84-27952
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
- SIGNAL REFLECTION**
Reflectometer for receiver input impedance match measurement Patent
[NASA-CASE-XNP-10843] c 07 N71-11267
Reflex feed system for dual frequency antenna with frequency cutoff means
[NASA-CASE-NPO-14022-1] c 32 N78-31321
- SIGNAL STABILIZATION**
Linear accelerator frequency control system Patent
[NASA-CASE-XGS-05441] c 10 N71-22962
Digital modulator and demodulator Patent
[NASA-CASE-ERC-10041] c 08 N71-29138
System for interference signal nulling by polarization adjustment
[NASA-CASE-NPO-13140-1] c 32 N75-24982
Fiber optic transmission line stabilization apparatus and method
[NASA-CASE-NPO-15036-1] c 74 N82-19029
- SIGNAL TO NOISE RATIOS**
System for improving signal-to-noise ratio of a communication signal Patent Application
[NASA-CASE-MSC-12259-1] c 07 N70-12616

- Radar ranging receiver Patent
[NASA-CASE-XNP-00748] c 07 N70-36911
Phase detector assembly Patent
[NASA-CASE-XMF-00701] c 09 N70-40272
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Signal ratio system utilizing voltage controlled oscillators Patent
[NASA-CASE-XMF-04367] c 09 N71-23545
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Parametric amplifiers with idler circuit feedback
[NASA-CASE-LAR-10253-1] c 09 N72-25258
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Signal-to-noise ratio determination circuit
[NASA-CASE-GSC-11239-1] c 10 N73-25241
Gated compressor, distortionless signal limiter
[NASA-CASE-NPO-11820-1] c 32 N74-19788
- SIGNAL TRANSMISSION**
Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent
[NASA-CASE-XAC-00086] c 09 N70-33182
Bi-carrier demodulator with modulation Patent
[NASA-CASE-XMF-01160] c 07 N71-11298
Bi-polar phase detector and corrector for split phase PCM data signals Patent
[NASA-CASE-XGS-01590] c 07 N71-12392
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Elimination of frequency shift in a multiplex communication system Patent
[NASA-CASE-XNP-01306] c 07 N71-20814
Adaptive tracking notch filter system Patent
[NASA-CASE-XMF-01892] c 10 N71-22986
Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311
Junction range finder
[NASA-CASE-KSC-10108] c 14 N73-25461
Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
Controlled oscillator system with a time dependent output frequency
[NASA-CASE-NPO-11962-1] c 33 N74-10194
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809
Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810
Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981
Method and apparatus for background signal reduction in opto-acoustic absorption measurement
[NASA-CASE-NPO-13683-1] c 35 N77-14411
Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
Fiber optic multiplex optical transmission system
[NASA-CASE-KSC-11047-1] c 74 N78-14889
Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
Precise RF timing signal distribution to remote stations --- fiber optics
[NASA-CASE-NPO-14749-1] c 32 N81-14186
Digital numerically controlled oscillator
[NASA-CASE-MSC-16747-1] c 33 N81-17349
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] c 32 N84-22820
- SIGNATURE ANALYSIS**
Multispectral imaging and analysis system --- using charge coupled devices and linear arrays
[NASA-CASE-NPO-13691-1] c 43 N79-17288
- SILANES**
Elastomeric silazane polymers and process for preparing the same Patent
[NASA-CASE-XMF-04133] c 06 N71-20717

- Process for preparation of dianilinosilanes Patent
[NASA-CASE-XMF-06409] c 06 N71-23230
Process for preparation of high-molecular-weight polyaryloxysilanes Patent
[NASA-CASE-XMF-08674] c 06 N71-28807
Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
[NASA-CASE-ARC-10915-2] c 27 N79-18052
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process for producing tris (n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040
- SILICA GEL**
Gels as battery separators for soluble electrode cells
[NASA-CASE-LEW-12364-1] c 44 N77-22606
Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- SILICA GLASS**
Non-toxic invert analog glass compositions of high modulus
[NASA-CASE-HQN-10328-2] c 27 N82-29454
High modulus rare earth and beryllium containing silicate glass compositions --- for glass reinforcing fibers
[NASA-CASE-HQN-10595-1] c 27 N82-29455
- SILICATES**
Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347
- SILICIDES**
Silicide coatings for refractory metals Patent
[NASA-CASE-XLE-10910] c 18 N71-29040
Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- SILICON**
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
Method of controlling defect orientation in silicon crystal ribbon growth
[NASA-CASE-NPO-13918-1] c 76 N79-11920
Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Apparatus for use in the production of ribbon-shaped crystals from a silicon melt
[NASA-CASE-NPO-14297-1] c 33 N81-19389
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of protecting a surface with a silicon-slurry/aluminate coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Thermal reactor --- liquid silicon production from silane gas
[NASA-CASE-NPO-14369-1] c 44 N83-10501
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Ribbon growing method and apparatus
[NASA-CASE-NPO-16306-1-CU] c 76 N85-30934
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- SILICON ALLOYS**
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

SILICON CARBIDES

- A method for the deposition of beta-silicon carbide by isopitaxy
 [NASA-CASE-ERC-10120] c 26 N69-33482
 Production of high purity silicon carbide Patent
 [NASA-CASE-XLA-00158] c 26 N70-36805
 Apparatus for producing high purity silicon carbide crystals Patent
 [NASA-CASE-XLA-02057] c 26 N70-40015
 Process for fabricating SiC semiconductor devices
 [NASA-CASE-LEW-12094-1] c 76 N76-25049
 Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
 [NASA-CASE-NPO-13969-1] c 76 N79-23798
 High temperature silicon carbide impregnated insulating fabrics
 [NASA-CASE-MSC-18832-1] c 27 N83-18908
 Oxidation resistant slurry coating for carbon-based materials
 [NASA-CASE-LEW-13923-1] c 26 N85-35267
 Method of preparing fiber reinforced ceramic material
 [NASA-CASE-LEW-14392-1] c 27 N87-28656
 Boron-containing organosilane polymers and ceramic materials thereof
 [NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICON COMPOUNDS

- Method of making a silicon semiconductor device Patent
 [NASA-CASE-XLE-02792] c 26 N71-10607
 Polymerizable disilanol having in-chain perfluoroalkyl groups
 [NASA-CASE-MFS-20979-2] c 06 N73-32030
 Infusible silazane polymer and process for producing same --- protective coatings
 [NASA-CASE-XMF-02526-1] c 27 N79-21190
 Silicon-slurry/aluminate coating --- protecting gas turbine engine vanes and blades
 [NASA-CASE-LEW-13343] c 26 N83-31795
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

SILICON CONTROLLED RECTIFIERS

- Protection for energy conversion systems
 [NASA-CASE-XGS-04808] c 03 N69-25146
 Transient-compensated SCR inverter
 [NASA-CASE-XLA-08507] c 09 N69-39984
 Reversible ring counter employing cascaded single SCR stages Patent
 [NASA-CASE-XGS-01473] c 09 N71-10673
 SCR blocking pulse gate amplifier Patent
 [NASA-CASE-XLA-07497] c 09 N71-12514
 Combinational logic for generating gate drive signals for phase control rectifiers
 [NASA-CASE-MFS-25208-1] c 33 N83-10345

SILICON DIOXIDE

- Intermittent type silica gel adsorption refrigerator Patent
 [NASA-CASE-XNP-00920] c 15 N71-15906
 Nose cone mounted heat resistant antenna Patent
 [NASA-CASE-XMS-04312] c 07 N71-22984
 Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
 [NASA-CASE-ERC-10073-1] c 24 N74-19769
 Silica reusable surface insulation
 [NASA-CASE-ARC-10721-1] c 27 N76-22376
 Two-component ceramic coating for silica insulation
 [NASA-CASE-MSC-14270-1] c 27 N76-22377
 Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
 [NASA-CASE-LAR-10385-3] c 74 N78-15879
 Field effect transistor and method of construction thereof
 [NASA-CASE-MFS-23312-1] c 33 N78-27326
 Fibrous refractory composite insulation --- shielding reusable spacecraft
 [NASA-CASE-ARC-11169-1] c 24 N79-24062
 Attachment system for silica tiles --- thermal protection for space shuttle orbiter
 [NASA-CASE-MSC-18741-1] c 27 N82-29456
 Pyroelectric detector arrays
 [NASA-CASE-LAR-12363-2] c 33 N83-24763
 Apparatus and method for heating a material in a transparent ampoule --- crystal growth
 [NASA-CASE-MFS-25436-1] c 27 N83-36220

SILICON FILMS

- A method for the deposition of beta-silicon carbide by isopitaxy
 [NASA-CASE-ERC-10120] c 26 N69-33482
 Pyroelectric detector arrays
 [NASA-CASE-LAR-12363-1] c 35 N82-31659
 Ingot slicing machine and method
 [NASA-CASE-NPO-15483-1] c 37 N85-21650

SILICON JUNCTIONS

- Radiation resistant silicon semiconductor devices Patent
 [NASA-CASE-XGS-07801] c 09 N71-12513

SILICON NITRIDES

- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
 [NASA-CASE-ERC-10073-1] c 24 N74-19769
 Silicon nitride coated, plastic covered solar cell
 [NASA-CASE-LEW-11496-1] c 44 N77-14580
 Sandblasting nozzle
 [NASA-CASE-NPO-13823-1] c 37 N81-25371

SILICON OXIDES

- Three-component ceramic coating for silica insulation
 [NASA-CASE-MSC-14270-2] c 27 N76-23426

SILICON POLYMERS

- Oxygen post-treatment of plastic surface coated with plasma polymerized silicon-containing monomers
 [NASA-CASE-ARC-10915-2] c 27 N79-18052
 Boron-containing organosilane polymers and ceramic materials thereof
 [NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

SILICON RADIATION DETECTORS

- Thin window, drifted silicon, charged particle detector
 [NASA-CASE-XLE-10529] c 14 N69-23191
 Biomedical radiation detecting probe Patent
 [NASA-CASE-XMS-01177] c 05 N71-19440
 Imaging X-ray spectrometer
 [NASA-CASE-GSC-12682-1] c 35 N84-33765

SILICON TRANSISTORS

- Tungsten contacts on silicon substrates
 [NASA-CASE-GSC-10695-1] c 09 N72-25259
 Method and apparatus for detecting surface ions on silicon diodes and transistors
 [NASA-CASE-ERC-10325] c 15 N72-25457

SILICONES

- Vacuum pressure molding technique
 [NASA-CASE-LAR-10073-1] c 37 N76-24575

SILICONES

- Silicone containing solid propellant
 [NASA-CASE-NPO-14477-1] c 28 N80-28536

SILICONIZING

- Method of coating carbonaceous base to prevent oxidation destruction and coated base Patent
 [NASA-CASE-XLA-00284] c 15 N71-16075

SILOXANES

- Synthesis of siloxane-containing epoxy polymers Patent
 [NASA-CASE-MFS-13994-1] c 06 N71-11240
 Method of producing alternating ether siloxane copolymers Patent
 [NASA-CASE-XMF-02584] c 06 N71-20905
 Siloxane containing epoxide compounds
 [NASA-CASE-MFS-13994-2] c 06 N72-25148
 Silphenylenesiloxane polymers having in-chain perfluoroalkyl groups
 [NASA-CASE-MFS-20979] c 06 N72-25151
 Low outgassing polydimethylsiloxane material and preparation thereof
 [NASA-CASE-GSC-11358-1] c 06 N73-26100
 Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
 [NASA-CASE-LAR-13318-1] c 27 N87-14516

SILVER

- Method of making dry electrodes
 [NASA-CASE-FRC-10029-2] c 05 N72-25121
 Method for forming hermetic seals
 [NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
 Carbide-fluoride-silver self-lubricating composite
 [NASA-CASE-LEW-14196-2] c 37 N87-25585

SILVER ALLOYS

- Brazing alloy composition
 [NASA-CASE-XMF-06053] c 26 N75-27126

SILVER CHLORIDES

- Electrode for biological recording
 [NASA-CASE-XMS-02872] c 05 N69-21925
 Bonding graphite with fused silver chloride
 [NASA-CASE-XGS-00963] c 15 N69-39735

SILVER COMPOUNDS

- Water management system and an electrolytic cell therefor Patent
 [NASA-CASE-MSC-10960-1] c 03 N71-24718

SILVER ZINC BATTERIES

- Electric battery and method for operating same Patent
 [NASA-CASE-XGS-01674] c 03 N71-29129
 Additive for zinc electrodes --- electric automobiles
 [NASA-CASE-LEW-13286-1] c 33 N84-14422

SIMULATION

- Method and apparatus for simulating gravitational forces on a living organism
 [NASA-CASE-MSC-20202-1] c 54 N84-16803

SIMULATORS

- Method and apparatus of simulating zero gravity conditions Patent
 [NASA-CASE-MFS-12750] c 27 N71-16223
 Phonocardiogram simulator Patent
 [NASA-CASE-XKS-10804] c 05 N71-24606
 Waveform simulator Patent
 [NASA-CASE-NPO-10251] c 10 N71-27365

- Laser Doppler velocity simulator --- to induce frequency shift
 [NASA-CASE-LAR-12176-1] c 36 N80-16321
 Weightlessness simulation system and process
 [NASA-CASE-ARC-11646-1] c 14 N87-25344

SIMULTANEOUS EQUATIONS

- Method and apparatus for self-calibration and phasing of array antenna
 [NASA-CASE-NPO-15920-1] c 33 N85-21493

SINE SERIES

- Electro-mechanical sine/cosine generator
 [NASA-CASE-LAR-10503-1] c 09 N72-21248
 Function generator for synthesizing complex vibration mode patterns
 [NASA-CASE-LAR-10310-1] c 10 N73-20253

SINE WAVES

- Waveform simulator Patent
 [NASA-CASE-NPO-10251] c 10 N71-27365
 Wide band doubler and sine wave quadrature generator
 [NASA-CASE-NPO-11133] c 10 N72-20223
 Electro-mechanical sine/cosine generator
 [NASA-CASE-LAR-11389-1] c 33 N77-26387

SINGLE CRYSTALS

- Production of high purity silicon carbide Patent
 [NASA-CASE-XLA-00158] c 26 N70-36805
 Fabrication of single crystal film semiconductor devices
 [NASA-CASE-ERC-10222] c 09 N72-22199
 Hall effect magnetometer
 [NASA-CASE-LEW-11632-2] c 35 N75-13213
 Vapor phase growth of groups 3-5 compounds by hydrogen chloride transport of the elements
 [NASA-CASE-LAR-11144-1] c 25 N75-26043
 Method for the preparation of inorganic single crystal and polycrystalline electronic materials
 [NASA-CASE-XLE-02545-1] c 76 N79-21910
 Growth of silicon carbide crystals on a seed while pulling silicon crystals from a melt
 [NASA-CASE-NPO-13969-1] c 76 N79-23798
 Diamondlike flakes
 [NASA-CASE-LEW-13837-2] c 24 N85-21267
 Method of making macrocrystalline or single crystal semiconductor material
 [NASA-CASE-NPO-15904-1] c 76 N86-28760
 Total immersion crystal growth
 [NASA-CASE-NPO-15800-2] c 76 N87-23286
 Laser schlieren crystal monitor
 [NASA-CASE-MFS-28060-1] c 76 N87-25862
 Procedure to prepare transparent silica gels
 [NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
 Fabrication of nanometer single crystal metallic CoSi₂ structures on Si
 [NASA-CASE-NPO-17736-1-CU] c 76 N90-17455

SINTERING

- Condenser - Separator
 [NASA-CASE-XLA-08645] c 15 N69-21465
 Method of producing refractory bodies having controlled porosity Patent
 [NASA-CASE-LEW-10393-1] c 17 N71-15468
 Electrodes for solid state devices
 [NASA-CASE-NPO-15161-1] c 33 N84-16456
 Method of making a light weight battery plaque
 [NASA-CASE-LEW-13349-1] c 26 N84-22734

SIS (SUPERCONDUCTORS)

- Edge geometry superconducting tunnel junctions utilizing an NbN/MgO/NbN thin film structure
 [NASA-CASE-NPO-17812-1-CU] c 76 N90-17456

SIZE (DIMENSIONS)

- Apparatus for producing metal powders
 [NASA-CASE-XLE-06461-2] c 17 N72-28535
 Torso sizing ring construction for hard space suit
 [NASA-CASE-ARC-11616-1] c 54 N86-28618

SIZE DETERMINATION

- Impact measuring technique
 [NASA-CASE-LAR-10913] c 14 N72-16282
 Small conductive particle sensor --- microfiber size determination
 [NASA-CASE-LAR-12552-1] c 35 N82-11431

SIZE SEPARATION

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114-2] c 15 N71-26148
 Material handling device Patent
 [NASA-CASE-XNP-09770-3] c 11 N71-27036
 Acoustic particle separation
 [NASA-CASE-NPO-15559-1] c 71 N85-30765

SIZING (SHAPING)

- Method and apparatus for precision sizing and joining of large diameter tubes Patent
 [NASA-CASE-XMF-05114] c 15 N71-17650

SIZING SCREENS

- Method of making screen by casting Patent
 [NASA-CASE-XLE-00953] c 15 N71-15966
 Screen particle separator
 [NASA-CASE-XNP-09770-2] c 15 N72-22483

SKEWNESS

- Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420
Automatic character skew and spacing checking network
--- of digital tape drive systems
[NASA-CASE-GSC-11925-1] c 33 N76-18353

SKID LANDINGS

- Nose gear steering system for vehicle with main skids Patent
[NASA-CASE-XLA-01804] c 02 N70-34160

SKIN (ANATOMY)

- Process for conditioning tanned sharkskin and articles made therefrom Patent
[NASA-CASE-XMS-09691-1] c 18 N71-15545
Percutaneous connector device
[NASA-CASE-KSC-10849-1] c 52 N77-14738
Medical diagnosis system and method with multispectral imaging --- depth of burns and optical density of the skin
[NASA-CASE-NPO-14402-1] c 52 N81-27783

SKIN (STRUCTURAL MEMBER)

- Flexibly connected support and skin Patent
[NASA-CASE-XLA-01027] c 31 N71-24035
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

SKIN FRICTION

- Skin friction measuring device for aircraft
[NASA-CASE-FRC-11029-1] c 06 N81-17057
Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
Dual-beam skin friction interferometer
[NASA-CASE-ARC-11354-1] c 74 N83-21949
Two-axis, self-nulling skin friction balance
[NASA-CASE-LAR-13294-1] c 35 N86-32696
Skin friction balance
[NASA-CASE-LAR-13710-1] c 35 N90-17117

SKIN TEMPERATURE (BIOLOGY)

- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780

SKIN TEMPERATURE (NON-BIOLOGICAL)

- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085

SKIRTS

- Inflatable transpiration cooled nozzle
[NASA-CASE-MFS-20619] c 28 N72-11708

SKY BRIGHTNESS

- Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232

SLEEP

- EEG sleep analyzer and method of operation Patent
[NASA-CASE-MSC-13282-1] c 05 N71-24729

SLEEVES

- Energy absorbing device Patent
[NASA-CASE-XMF-10040] c 15 N71-22877
System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
Prosthesis coupling
[NASA-CASE-KSC-11069-1] c 52 N79-26772
Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137
Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

SLENDER BODIES

- A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540

SLICING

- Method and apparatus for slicing crystals
[NASA-CASE-GSC-12291-1] c 76 N80-18951
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] c 37 N84-28083

SLIDING

- Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443
Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051

SLIDING CONTACT

- Electrical connector pin with wiping action
[NASA-CASE-XMF-04238] c 09 N69-39734
Continuous turning slip ring assembly Patent
[NASA-CASE-XMF-01049] c 15 N71-23049
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944

SLIDING FRICTION

- Bearing material --- composite material with low friction surface for rolling or sliding contact
[NASA-CASE-LEW-11930-1] c 24 N76-22309

SLIP CASTING

- Process of casting heavy slips Patent
[NASA-CASE-XLE-00106] c 15 N71-16076

SLITS

- Slit regulated gas journal bearing Patent
[NASA-CASE-XNP-00476] c 15 N70-38620
Method of fabricating an object with a thin wall having a precisely shaped slit
[NASA-CASE-LAR-10409-1] c 31 N74-21059
Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686

SLOPES

- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Family of airfoil shapes for rotating blades --- for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] c 02 N84-11136

SLOT ANTENNAS

- Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247
Circularly polarized antenna
[NASA-CASE-ERC-10214] c 09 N72-31235
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Horn antenna having V-shaped corrugated slots
[NASA-CASE-LAR-11112-1] c 32 N76-15330
Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SLOTS

- Belleville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
Direct lift control system Patent
[NASA-CASE-LAR-10249-1] c 02 N71-26110
Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
Method and tool for machining a transverse slot about a bore
[NASA-CASE-LAR-11855-1] c 37 N81-14319

SLUDGE

- Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634

SLURRIES

- Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795

SLURRY PROPELLANTS

- Apparatus for making a metal slurry product Patent
[NASA-CASE-XLE-00010] c 15 N70-33382

SMOKE

- Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

SODIUM CHLORIDES

- Diffuse reflective coating
[NASA-CASE-GSC-11214-1] c 06 N73-13128
Separator for alkaline electric batteries and method of making
[NASA-CASE-GSC-10018-1] c 44 N82-24644

SODIUM VAPOR

- Method of producing silicon --- gas phase reactor multiple injector liquid feed system
[NASA-CASE-NPO-14382-1] c 31 N80-18231

SOFT LANDING

- Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861
Space craft soft landing system Patent
[NASA-CASE-XMF-02108] c 31 N70-36845
Omnidirectional multiple impact landing system Patent
[NASA-CASE-XLA-09881] c 31 N71-16085

SOFT LANDING SPACECRAFT

- Pivotal shock absorbing pad assembly Patent
[NASA-CASE-XMF-03856] c 31 N70-34159

SOIL MECHANICS

- Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367

SOIL MOISTURE

- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

SOIL SCIENCE

- Soil penetrometer
[NASA-CASE-XNP-05530] c 14 N73-32321
System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

SOILS

- Screen particle separator
[NASA-CASE-XNP-09770-2] c 15 N72-22483
Burrowing apparatus
[NASA-CASE-XNP-07169] c 15 N73-32362
Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529

SOL-GEL PROCESSES

- Alkali-metal silicate binders and methods of manufacture
[NASA-CASE-GSC-12303-1] c 24 N79-31347

SOLAR ACTIVITY

- Method and apparatus for measuring solar activity and atmospheric radiation effects
[NASA-CASE-ERC-10276] c 14 N73-26432

SOLAR ARRAYS

- Deployable solar cell array
[NASA-CASE-GSC-10883] c 31 N72-22874
Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
Solar energy powered heliotrope
[NASA-CASE-GSC-10945-1] c 21 N72-31637
Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
Solar array strip and a method for forming the same
[NASA-CASE-NPO-13652-1] c 44 N79-17314
Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
Method for forming a solar array strip
[NASA-CASE-NPO-13652-3] c 44 N80-14474
Electrical rotary joint apparatus for large space structures
[NASA-CASE-MFS-23981-1] c 07 N83-20944
Electronic system for high power load control --- solar arrays
[NASA-CASE-NPO-15358-1] c 33 N83-27126
Solar powered actuator with continuously variable auxiliary power control
[NASA-CASE-MFS-25637-1] c 44 N85-21769

SOLAR CELLS

- Method for producing a solar cell having an integral protective covering
[NASA-CASE-XGS-04531] c 03 N69-24267
Radiation direction detector including means for compensating for photocell aging Patent
[NASA-CASE-XLA-00183] c 14 N70-40239
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
Method of making a silicon semiconductor device Patent
[NASA-CASE-XLE-02792] c 26 N71-10607
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
Solar cell submodule Patent
[NASA-CASE-XNP-05821] c 03 N71-11056
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058
Solar cell matrix Patent
[NASA-CASE-NPO-10821] c 03 N71-19545
Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
Method of making electrical contact on silicon solar cell and resultant product Patent
[NASA-CASE-XLE-04787] c 03 N71-20492
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027

- Gd or Sm doped silicon semiconductor composition Patent
[NASA-CASE-XLE-10715] c 26 N71-23292
- Protection of serially connected solar cells against open circuits by the use of shunting diode Patent
[NASA-CASE-XLE-04535] c 03 N71-23354
- Silicon solar cell with cover glass bonded to cell by metal pattern Patent
[NASA-CASE-XLE-08569] c 03 N71-23449
- Semiconductor material and method of making same Patent
[NASA-CASE-XLE-02798] c 26 N71-23654
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Solar cell matrix
[NASA-CASE-NPO-11190] c 03 N71-34044
- Recovery of radiation damaged solar cells through thermal annealing
[NASA-CASE-XGS-04047-2] c 03 N72-11062
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Solar cell assembly test method
[NASA-CASE-NPO-10401] c 03 N72-20033
- Solid state matrices
[NASA-CASE-NPO-10591] c 03 N72-22041
- Solar cell panels with light transmitting plate
[NASA-CASE-NPO-10747] c 03 N72-22042
- Method of coating solar cell with borosilicate glass and resultant product
[NASA-CASE-GSC-11514-1] c 03 N72-24037
- Apparatus for applying cover slides
[NASA-CASE-NPO-10575] c 03 N72-25019
- Use of unilluminated solar cells as shunt diodes for a solar array
[NASA-CASE-GSC-10344-1] c 03 N72-27053
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Method of making silicon solar cell array --- and mounting on flexible substrate
[NASA-CASE-LEW-11069-1] c 44 N74-14784
- Covered silicon solar cells and method of manufacture --- with polymeric films
[NASA-CASE-LEW-11065-2] c 44 N76-14600
- Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
- Solar cell grid patterns
[NASA-CASE-NPO-13087-2] c 44 N76-31666
- Photovoltaic cell array
[NASA-CASE-MFS-22458-1] c 44 N77-10635
- Silicon nitride coated, plastic covered solar cell
[NASA-CASE-LEW-11496-1] c 44 N77-14580
- Solar cell assembly --- for use under high intensity illumination
[NASA-CASE-LEW-11549-1] c 44 N77-19571
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Shunt regulation electric power system
[NASA-CASE-GSC-10135] c 33 N78-17296
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Method of making encapsulated solar cell modules
[NASA-CASE-LEW-12185-1] c 44 N78-25528
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Hexagon solar power panel
[NASA-CASE-NPO-12148-1] c 44 N78-27515
- Application of semiconductor diffusants to solar cells by screen printing
[NASA-CASE-LEW-12775-1] c 44 N79-11468
- Method and apparatus for measuring minority carrier lifetimes and bulk diffusion length in P-N junction solar cells
[NASA-CASE-NPO-14100-1] c 44 N79-12541
- Back wall solar cell
[NASA-CASE-LEW-12236-2] c 44 N79-14528
- Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- Solar cell module assembly jig
[NASA-CASE-XGS-00829-1] c 44 N79-19447
- Double-sided solar cell package
[NASA-CASE-NPO-14199-1] c 44 N79-25482
- Solar cell with improved N-region contact and method of forming the same
[NASA-CASE-NPO-14205-1] c 44 N79-31752
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472
- Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
- Solar cell angular position transducer
[NASA-CASE-LAR-11999-1] c 44 N80-18552
- Method of mitigating titanium impurities effects in p-type silicon material for solar cells
[NASA-CASE-NPO-14635-1] c 44 N80-24741
- Induced junction solar cell and method of fabrication
[NASA-CASE-NPO-13786-1] c 44 N80-29835
- Solar cell system having alternating current output
[NASA-CASE-LEW-12806-2] c 44 N81-12542
- Method and apparatus for fabricating improved solar cell modules
[NASA-CASE-NPO-14416-1] c 44 N81-14389
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Schottky barrier solar cell
[NASA-CASE-NPO-13689-2] c 44 N81-29525
- Efficiency of silicon solar cells containing chromium
[NASA-CASE-NPO-15179-1] c 44 N82-26777
- Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
- Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
- High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
- Solar cell having improved back surface reflector
[NASA-CASE-LEW-13620-1] c 44 N83-13579
- Heat transparent high intensity high efficiency solar cell
[NASA-CASE-LEW-12892-1] c 44 N83-14692
- High voltage V-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
- Screen printed interdigitated back contact solar cell
[NASA-CASE-LEW-13414-1] c 44 N85-20530
- Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879
- SOLAR COLLECTORS**
- Connector strips-positive, negative and T tabs
[NASA-CASE-XGS-01395] c 03 N69-21539
- Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
- Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
- Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
[NASA-CASE-MFS-23267-1] c 35 N77-20401
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Solar energy collection system
[NASA-CASE-NPO-13810-1] c 44 N77-32582
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Selective coating for solar panels --- using black chrome and black nickel
[NASA-CASE-LEW-12159-1] c 44 N78-19599
- Solar cell collector
[NASA-CASE-LEW-12552-1] c 44 N78-25527
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Solar cells having integral collector grids
[NASA-CASE-LEW-12819-1] c 44 N79-11467
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13817-1] c 44 N79-11471
- Solar cell collector and method for producing same
[NASA-CASE-LEW-12552-2] c 44 N79-11472
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
- Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
- Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
- Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
- Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
- SOLAR ELECTRIC PROPULSION**
- Closed Loop solar array-ion thruster system with power control circuitry
[NASA-CASE-LEW-12780-1] c 20 N79-20179
- SOLAR ENERGY**
- Stacked solar cell arrays
[NASA-CASE-NPO-11771] c 03 N73-20040
- Solar energy power system --- using Freon
[NASA-CASE-MFS-21628-1] c 44 N75-32581
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Solar photolysis of water
[NASA-CASE-NPO-13675-1] c 44 N77-32580
- Three-dimensional tracking solar energy concentrator and method for making same
[NASA-CASE-NPO-13736-1] c 44 N77-32583
- Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
- Method for producing solar energy panels by automation
[NASA-CASE-LEW-12541-1] c 44 N78-25529
- Method for making an aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-1] c 44 N79-11469
- Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
- Method of construction of a multi-cell solar array
[NASA-CASE-MFS-23540-1] c 44 N79-26475
- Solar cell module
[NASA-CASE-NPO-14467-1] c 44 N79-31753
- Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR ENERGY ABSORBERS**
- Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
- Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657
- Solar energy trap
[NASA-CASE-MFS-22744-1] c 44 N76-24696
- Solar cell shingle
[NASA-CASE-LEW-12587-1] c 44 N77-31601
- Low cost solar energy collection system
[NASA-CASE-NPO-13579-1] c 44 N78-17460
- Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
- Aluminum or copper substrate panel for selective absorption of solar energy
[NASA-CASE-MFS-23518-3] c 44 N80-16452
- SOLAR ENERGY CONVERSION**
- Solar energy power system
[NASA-CASE-MFS-21628-2] c 44 N76-23675
- High voltage, high current Schottky barrier solar cell
[NASA-CASE-NPO-13482-1] c 44 N78-13526
- Process for utilizing low-cost graphite substrates for polycrystalline solar cells
[NASA-CASE-GSC-12022-2] c 44 N78-24609
- Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
- Solar concentrator
[NASA-CASE-MFS-23727-1] c 44 N80-14473
- Copper doped polycrystalline silicon solar cell
[NASA-CASE-NPO-14670-1] c 44 N81-19558
- Solar energy control system --- temperature measurement
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- Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
Solar driven liquid metal MHD power generator
[NASA-CASE-LAR-12495-1] c 44 N83-28573
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] c 25 N84-12262
Solar pumped laser
[NASA-CASE-LAR-12870-1] c 36 N84-16542
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Bidirectional control system for energy flow in solar powered flywheel
[NASA-CASE-MFS-25978-1] c 44 N87-21410
- SOLAR FLUX DENSITY**
Solar energy modulator
[NASA-CASE-NPO-15388-1] c 44 N84-28203
- SOLAR FURNACES**
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
- SOLAR GENERATORS**
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
- SOLAR GRAVITATION**
Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
[NASA-CASE-XNP-00708] c 14 N70-35394
- SOLAR HEATING**
Portable linear-focused solar thermal energy collecting system
[NASA-CASE-NPO-13734-1] c 44 N78-10554
Solar heating system
[NASA-CASE-LAR-12009-1] c 44 N78-15560
Combined solar collector and energy storage system
[NASA-CASE-LAR-12205-1] c 44 N80-20810
Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- SOLAR OBSERVATORIES**
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
- SOLAR PONDS (HEAT STORAGE)**
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525
Saltless solar pond
[NASA-CASE-NPO-15808-1] c 44 N84-34792
- SOLAR POSITION**
Sun angle calculator
[NASA-CASE-MSC-12617-1] c 35 N76-29552
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
- SOLAR POWERED AIRCRAFT**
Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154
- SOLAR RADIATION**
Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Wide angle sun sensor --- consisting of cylinder, insulation and pair of detectors
[NASA-CASE-NPO-13327-1] c 35 N75-23910
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] c 44 N84-28204
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] c 44 N85-30474
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLAR RADIATION SHIELDING**
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] c 44 N86-27706
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SOLAR RADIO EMISSION**
Sidereal frequency generator Patent
[NASA-CASE-XGS-02610] c 14 N71-23174

SOLAR REFLECTORS

- Foldable solar concentrator Patent
[NASA-CASE-XLA-04622] c 03 N70-41580
Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
Method and apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917] c 15 N71-15597
Thermal pump-compressor for space use Patent
[NASA-CASE-XLA-00377] c 33 N71-17610
Apparatus for making curved reflectors Patent
[NASA-CASE-XLE-08917-2] c 15 N71-24836
Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Primary reflector for solar energy collection systems
[NASA-CASE-NPO-13579-4] c 44 N79-14529
Primary reflector for solar energy collection systems and method of making same
[NASA-CASE-NPO-13579-3] c 44 N79-24432
Solar energy collection system
[NASA-CASE-NPO-13579-2] c 44 N79-24433
- SOLAR SAILS**
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364
- SOLAR SENSORS**
Plurality of photosensitive cells on a pyramidal base for planetary trackers
[NASA-CASE-NPO-04180] c 07 N69-39736
Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
Solar sensor having coarse and fine sensing with matched preirradiated cells and method of selecting cells Patent
[NASA-CASE-XLA-01584] c 14 N71-23269
Sun direction detection system
[NASA-CASE-NPO-13722-1] c 74 N77-22951
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
Solar tracking system
[NASA-CASE-MFS-23999-1] c 44 N81-24520
Sun sensing guidance system for high altitude aircraft
[NASA-CASE-FRC-11052-1] c 04 N82-23231
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Airborne tracking sunphotometer apparatus and system
[NASA-CASE-ARC-11622-1] c 44 N88-14492
- SOLAR SIMULATORS**
High temperature lens construction Patent
[NASA-CASE-XNP-04111] c 14 N71-15622
High powered arc electrodes --- producing solar simulator radiation
[NASA-CASE-LEW-11162-1] c 33 N74-12913
- SOLAR-PUMPED LASERS**
Long gain length solar pumped box laser
[NASA-CASE-LAR-13256-1] c 36 N86-29204
- SOLDERED JOINTS**
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
- SOLDERING**
Solder flux which leaves corrosion-resistant coating Patent
[NASA-CASE-XNP-03459-2] c 18 N71-15688
Soldering with solder flux which leaves corrosion resistant coating Patent
[NASA-CASE-XNP-03459] c 15 N71-21078
Method of plating copper on aluminum Patent
[NASA-CASE-XLA-08966-1] c 17 N71-25903
Resistance soldering apparatus
[NASA-CASE-GSC-10913] c 15 N72-22491
Positive contact resistance soldering unit
[NASA-CASE-KSC-10242] c 15 N72-23497
Bonding machine for forming a solar array strip
[NASA-CASE-NPO-13652-2] c 44 N79-24431
- SOLDERS**
Method of coating circuit paths on printed circuit boards with solder Patent
[NASA-CASE-XMF-01599] c 09 N71-20705
Method for attaching a fused-quartz mirror to a conductive metal substrate
[NASA-CASE-MFS-23405-1] c 26 N77-29260
- SOLENOID VALVES**
Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Automatic recording McLeod gauge Patent
[NASA-CASE-XLE-03280] c 14 N71-23093

- Solenoid valve including guide for armature and valve member
[NASA-CASE-GSC-10607-1] c 15 N72-20442
Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
Automatically operable self-leveling load table
[NASA-CASE-MFS-22039-1] c 09 N75-12968
Self-compensating solenoid valve
[NASA-CASE-ARC-11620-1] c 37 N87-25573
- SOLENOIDS**
Solenoid construction Patent
[NASA-CASE-XNP-01951] c 09 N70-41929
Drive circuit for minimizing power consumption in inductive load Patent
[NASA-CASE-NPO-10716] c 09 N71-24892
Rotary solenoid shutter drive assembly and rotary inertia damper and stop plate assembly --- for use with cameras mounted in satellites
[NASA-CASE-GSC-11560-1] c 33 N74-20861
Sprag solenoid brake --- development and operations of electrically controlled brake
[NASA-CASE-MFS-21846-1] c 37 N74-26976
Low temperature latching solenoid
[NASA-CASE-MSC-18106-1] c 33 N82-11357
- SOLID CRYOGEN COOLING**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLID ELECTRODES**
Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
Additive for zinc electrodes --- electric automobiles
[NASA-CASE-LEW-13286-1] c 33 N84-14422
- SOLID LUBRICANTS**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Inorganic solid film lubricants Patent
[NASA-CASE-XMF-03988] c 15 N71-21403
Rolling element bearings Patent
[NASA-CASE-XLE-09527-2] c 15 N71-26189
Method of making bearing materials --- self-lubricating, oxidation resistant composites for high temperature applications
[NASA-CASE-LEW-11930-4] c 24 N79-17916
- SOLID PHASES**
Solid electrolyte cell
[NASA-CASE-NPO-15269-1] c 44 N82-29710
- SOLID PROPELLANT IGNITION**
Apparatus for igniting solid propellants Patent
[NASA-CASE-XLE-00207] c 28 N70-33375
Method of igniting solid propellants Patent
[NASA-CASE-XLE-01988] c 27 N71-15634
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-3] c 20 N83-17588
- SOLID PROPELLANT ROCKET ENGINES**
Spherical solid-propellant rocket motor Patent
[NASA-CASE-XLA-00105] c 28 N70-33331
Mandrel for shaping solid propellant rocket fuel into a motor casing Patent
[NASA-CASE-XLA-00304] c 27 N70-34783
Spherically-shaped rocket motor Patent
[NASA-CASE-XHQ-01897] c 28 N70-35381
Propellant grain for rocket motors Patent
[NASA-CASE-XGS-03556] c 27 N70-35534
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Steerable solid propellant rocket motor Patent
[NASA-CASE-XNP-00234] c 28 N70-38645
Method of making a solid propellant rocket motor Patent
[NASA-CASE-XLA-04126] c 28 N71-26779
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
Solid propellant rocket motor nozzle
[NASA-CASE-NPO-11458] c 28 N72-23810
Solid propellant rocket motor
[NASA-CASE-NPO-11559] c 28 N73-24784
Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
Molded composite pyrogen igniter for rocket motors --- solid propellant ignition
[NASA-CASE-LAR-12018-1] c 20 N78-24275

- Solid propellant motor
[NASA-CASE-NPO-11458A] c 20 N78-32179
Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- SOLID PROPELLANTS**
Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
Means and method of measuring viscoelastic strain Patent
[NASA-CASE-XNP-01153] c 32 N71-17645
Processing for producing a sterilized instrument Patent
[NASA-CASE-XNP-09763] c 14 N71-20461
Method of forming difunctional polyisobutylene
[NASA-CASE-NPO-10893] c 27 N73-22710
- SOLID ROCKET BINDERS**
Solid propellant liner Patent
[NASA-CASE-XNP-09744] c 27 N71-16392
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID ROCKET PROPELLANTS**
Process for preparing sterile solid propellants Patent
[NASA-CASE-XNP-01749] c 27 N70-41897
Burning rate control of solid propellants Patent
[NASA-CASE-XLE-03494] c 27 N71-21819
Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
Hydrazinium nitroformate propellant with saturated polymeric hydrocarbon binder
[NASA-CASE-NPO-12015] c 27 N73-16764
Preparing oxidizer coated metal fuel particles
[NASA-CASE-NPO-11975-1] c 28 N74-33209
Casting propellant in rocket engine
[NASA-CASE-LAR-11995-1] c 28 N77-10213
Solid propellant rocket motor and method of making same
[NASA-CASE-XLA-01349] c 20 N77-17143
High performance ammonium nitrate propellant
[NASA-CASE-NPO-14260-1] c 28 N79-28342
Process for the leaching of AP from propellant
[NASA-CASE-NPO-14109-1] c 28 N80-23471
Silicone containing solid propellant
[NASA-CASE-NPO-14477-1] c 28 N80-28536
- SOLID STATE**
Solid state chemical source for ammonia beam maser Patent
[NASA-CASE-XGS-01504] c 16 N70-41578
- SOLID STATE DEVICES**
Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
Operational integrator Patent
[NASA-CASE-NPO-10230] c 09 N71-12520
Microwave power receiving antenna Patent
[NASA-CASE-MFS-20333] c 09 N71-13486
Counter and shift register Patent
[NASA-CASE-XNP-01753] c 08 N71-22897
Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
Switching circuit Patent
[NASA-CASE-NPO-06505] c 10 N71-24799
Transverse piezoresistance and pinch effect electromechanical transducers Patent
[NASA-CASE-ERC-10088] c 26 N71-25490
A solid state acoustic variable time delay line Patent
[NASA-CASE-ERC-10032] c 10 N71-25900
Broadband stable power multiplier Patent
[NASA-CASE-XNP-10854] c 10 N71-26331
Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
Thermal to electrical power conversion system with solid-state switches with Seebeck effect compensation
[NASA-CASE-NPO-11388] c 03 N72-23048
Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135
Full wave modulator-demodulator amplifier apparatus --- for generating rectified output signal
[NASA-CASE-FRC-10072-1] c 33 N74-14939
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314
- Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] c 35 N84-14491
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768
Hermetically sealable package for hybrid solid-state electronic devices and the like
[NASA-CASE-MS-C-20181-1] c 33 N88-23941
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010
- SOLID SURFACES**
Dye penetrant for surfaces subsequently contacted by liquid oxygen Patent
[NASA-CASE-XMF-02221] c 18 N71-27170
- SOLID WASTES**
Process of forming catalytic surfaces for wet oxidation reactions
[NASA-CASE-MS-C-14831-1] c 25 N78-10225
- SOLID-SOLID INTERFACES**
Coal-shale interface detection
[NASA-CASE-MFS-23720-3] c 43 N79-25443
Coal-rock interface detector
[NASA-CASE-MFS-23725-1] c 43 N79-31706
- SOLIDIFICATION**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
- SOLIDIFIED GASES**
Cooling by conversion of para to ortho-hydrogen
[NASA-CASE-GSC-12770-1] c 25 N83-29324
- SOLIDS FLOW**
Use of glow discharge in fluidized beds
[NASA-CASE-ARC-11245-1] c 28 N82-18401
- SOLUBILITY**
Fire resistant coating composition Patent
[NASA-CASE-GSC-10072] c 18 N71-14014
Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SOLUTES**
Specific wavelength colorimeter --- for measuring given solute concentration in test sample
[NASA-CASE-MS-C-14081-1] c 35 N74-27860
- SOLUTIONS**
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
- SOLVENT EXTRACTION**
Recovery of aluminum from composite propellants
[NASA-CASE-NPO-14110-1] c 28 N81-15119
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] c 23 N84-16255
Infusion extractor
[NASA-CASE-MS-C-20761-1] c 37 N87-15465
- SOLVENTS**
Coal desulfurization --- using iron pentacarbonyl
[NASA-CASE-NPO-14272-1] c 25 N81-33246
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] c 25 N84-22709
Process for producing tris s(n-methylamino) methylsilane
[NASA-CASE-MFS-25721-1] c 25 N85-21280
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- SONAR**
Method for shaping and aiming narrow beams --- sonar mapping and target identification
[NASA-CASE-NPO-14632-1] c 32 N82-18443
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SONIC BOOMS**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Instrumentation for measuring aircraft noise and sonic boom
[NASA-CASE-LAR-11476-1] c 07 N76-27232
- SORBATES**
Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465
- SORET COEFFICIENT**
Method of growing composites of the type exhibiting the Soret effect --- improved structure of eutectic alloy crystals
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- SORPTION**
Two stage sorption type cryogenic refrigerator including heat regeneration system
[NASA-CASE-NPO-17630-1-CU] c 31 N89-29577
- SOUND GENERATORS**
Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
- SOUND LOCALIZATION**
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
- SOUND PRESSURE**
Instrumentation for measurement of aircraft noise and sonic boom
[NASA-CASE-LAR-11173-1] c 35 N75-19614
Differential sound level meter
[NASA-CASE-LAR-12106-1] c 71 N78-14867
- SOUND PROPAGATION**
System for plotting subsoil structure and method thereof
[NASA-CASE-NPO-14191-1] c 31 N80-32584
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
- SOUND RANGING**
Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376
- SOUND TRANSDUCERS**
Method for detecting hydrogen gas
[NASA-CASE-XMF-03873] c 06 N69-39733
Cosmic dust sensor
[NASA-CASE-GSC-10503-1] c 14 N72-20381
Resolution enhanced sound detecting apparatus
[NASA-CASE-NPO-14134-1] c 71 N79-23753
Pulse transducer with artifact signal attenuator --- heart rate sensors
[NASA-CASE-FRC-11012-1] c 52 N80-23969
Acoustic system for material transport
[NASA-CASE-NPO-15453-1] c 71 N83-32515
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- SOUND TRANSMISSION**
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710
- SOUND WAVES**
Phonocardiograph transducer Patent
[NASA-CASE-XMS-05365] c 14 N71-22993
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Acoustic energy shaping
[NASA-CASE-NPO-13802-1] c 71 N78-10837
Acoustic driving of rotor
[NASA-CASE-NPO-14005-1] c 71 N79-20827
Acoustic bubble removal method
[NASA-CASE-NPO-15334-1] c 71 N83-35781
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] c 35 N84-22933
Acoustic rotation control
[NASA-CASE-NPO-15689-1] c 71 N84-23233
Acoustic agglomeration methods and apparatus
[NASA-CASE-NPO-15466-1] c 71 N85-22104
Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
Acoustic particle separation
[NASA-CASE-NPO-15559-1] c 71 N85-30765
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653
- SOUNDING ROCKETS**
Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
Method and system for ejecting fairing sections from a rocket vehicle
[NASA-CASE-GSC-10590-1] c 31 N73-14853
- SPACE CAPSULES**
Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664
Space capsule ejection assembly Patent
[NASA-CASE-XMF-03169] c 31 N71-15675
- SPACE CHARGE**
Space-charge-limited solid-state triode
[NASA-CASE-NPO-13064-1] c 33 N79-11314

SPACE COMMUNICATION

- Multiple input radio receiver Patent
[NASA-CASE-XLA-00901] c 07 N71-10775
- Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473
- Apparatus providing a directive field pattern and attitude sensing of a spin stabilized satellite Patent
[NASA-CASE-XGS-02607] c 31 N71-23009
- Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

SPACE ENVIRONMENT SIMULATION

- Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578
- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
- Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086
- Optical characteristics measuring apparatus Patent
[NASA-CASE-XNP-08840] c 23 N71-16365
- Omni-directional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Mechanical simulator of low gravity conditions Patent
[NASA-CASE-MFS-10555] c 11 N71-19494
- Self-lubricating fluoride metal composite materials Patent
[NASA-CASE-XLE-08511] c 18 N71-23710
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MFS-25791-1] c 09 N84-27749
- Variable energy, high flux, ground-state atomic oxygen source
[NASA-CASE-NPO-16640-1-CU] c 72 N87-21661

SPACE ERECTABLE STRUCTURES

- Flexible foam erectable space structures Patent
[NASA-CASE-XLA-00686] c 31 N70-34135
- Erectable modular space station Patent
[NASA-CASE-XLA-00678] c 31 N70-34296
- Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
- Collapsible loop antenna for space vehicle Patent
[NASA-CASE-XMF-00437] c 07 N70-40202
- Passive communication satellite Patent
[NASA-CASE-XLA-00210] c 30 N70-40309
- Flexible wing deployment device Patent
[NASA-CASE-XLA-01220] c 02 N70-41863
- Capillary radiator Patent
[NASA-CASE-XLE-03307] c 33 N71-14035
- Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214
- Roll-up solar array Patent
[NASA-CASE-NPO-10188] c 03 N71-20273
- Collapsible reflector Patent
[NASA-CASE-XMS-03454] c 09 N71-20658
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Radiator deployment actuator Patent
[NASA-CASE-MSC-11817-1] c 15 N71-26611
- Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936
- Expandable space frames
[NASA-CASE-ERC-10365-1] c 31 N73-32749
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Telescoping columns --- parabolic antenna support
[NASA-CASE-LAR-12195-1] c 31 N81-27324
- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] c 18 N87-14373
- Bi-stem gripping apparatus
[NASA-CASE-MFS-28185-1] c 37 N88-23979
- Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130
- Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621
- Antenna surface contour control system
[NASA-CASE-LAR-13798-1] c 32 N89-25363

SPACE EXPLORATION

- Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238

SPACE FLIGHT

- Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449

SPACE FLIGHT FEEDING

- Helmet feedport
[NASA-CASE-XMS-09653] c 54 N78-17680
- Self-charging metering and dispensing device for fluids
[NASA-CASE-MSC-20275-1] c 35 N85-21595

SPACE INDUSTRIALIZATION

- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108

SPACE MAINTENANCE

- Thruster maintenance system Patent
[NASA-CASE-MFS-20325] c 28 N71-27095
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323

SPACE MANUFACTURING

- Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
- Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
- Apparatus for assembling space structure
[NASA-CASE-MFS-23579-1] c 18 N79-11108
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Low gravity exothermic heating/cooling apparatus
[NASA-CASE-MSC-25707-1] c 35 N85-29214

SPACE MISSIONS

- Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
[NASA-CASE-XAC-08494] c 30 N71-15990
- Deep space monitor communication satellite system Patent
[NASA-CASE-XAC-06029-1] c 31 N71-24813
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884

SPACE NAVIGATION

- Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- Dual purpose momentum wheels for spacecraft with magnetic recording
[NASA-CASE-NPO-11481] c 21 N73-13644
- Star tracking reticles and process for the production thereof
[NASA-CASE-GSC-11188-2] c 21 N73-19630

SPACE ORIENTATION

- Method and apparatus for determining satellite orientation utilizing spatial energy sources Patent
[NASA-CASE-XGS-00466] c 21 N70-34297

SPACE PLATFORMS

- Joint for deployable structures
[NASA-CASE-NPO-16038-1] c 37 N86-19605
- Mobile remote manipulator vehicle system
[NASA-CASE-LAR-13393-1] c 54 N87-29118
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

SPACE PROBES

- Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACE PROCESSING

- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750
- Infusion extractor
[NASA-CASE-MSC-20761-1] c 37 N87-15465
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- Method of dispensing reagent chemicals in space
[NASA-CASE-LAR-13607-1-CU] c 29 N88-29048
- Spiral vane bioreactor
[NASA-CASE-MSC-21361-1] c 51 N89-25557

SPACE RENDEZVOUS

- Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222
- Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

- Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

SPACE SHUTTLE BOOSTERS

- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACE SHUTTLE ORBITERS

- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
- CAM controlled retractable door latch
[NASA-CASE-MSC-20304-1] c 37 N82-31690
- High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
- Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
- Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
- Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784
- Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886

SPACE SHUTTLE PAYLOADS

- Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Payload deployment method and system
[NASA-CASE-MSC-21330-1] c 16 N88-24660

SPACE SHUTTLES

- Flight craft Patent
[NASA-CASE-XAC-02058] c 02 N71-16087
- A method of delivering a vehicle to earth orbit and returning the reusable portion thereof to earth
[NASA-CASE-MSC-12391] c 30 N73-12884
- Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854
- Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-12425-1] c 18 N75-27041
- Fused silicide coatings containing discrete particles for protecting niobium alloys --- used in space shuttle thermal protection systems and turbine engine components
[NASA-CASE-LEW-11179-1] c 27 N76-16229
- Device for coupling a first vehicle to a second vehicle
[NASA-CASE-GSC-12429-1] c 37 N81-14320
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- Adjustable high emittance gap filler --- reentry shielding for space shuttle vehicles
[NASA-CASE-ARC-11310-1] c 27 N82-24339
- Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991
- Slide release mechanism --- for space shuttle orbiter/external tank connection device
[NASA-CASE-MSC-20080-1] c 37 N85-30334
- Preloaded brake disc
[NASA-CASE-MSC-21132-1] c 37 N88-29181
- Emergency egress fixed rocket package
[NASA-CASE-MSC-21332-1] c 03 N89-11724

SPACE SIMULATORS

- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675
- Variable geometry manned orbital vehicle Patent
[NASA-CASE-XLA-03691] c 31 N71-15674
- Space simulation and radiative property testing system and method Patent
[NASA-CASE-MFS-20096] c 14 N71-30026
- Biocentrifuge system capable of exchanging specimen cages while in operational mode
[NASA-CASE-MFS-23825-1] c 51 N81-32829

SPACE STATION STRUCTURES

- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
- Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-2] c 18 N89-28554

SPACE STATIONS

- Manned space station Patent
[NASA-CASE-XLA-00258] c 31 N70-38676
- Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345

Space manufacturing machine Patent
[NASA-CASE-MFS-20410] c 15 N71-19214

Meteoroid impact position locator aid for manned space station
[NASA-CASE-LAR-10629-1] c 35 N75-33367

Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729

Vapor fragrances
[NASA-CASE-LAR-13680-1] c 35 N87-25561

Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827

Expandable pallet for space station interface attachments
[NASA-CASE-MSC-21117-1] c 18 N88-28958

Coilet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180

Space station erectable manipulator placement system
[NASA-CASE-MSC-21096-1] c 18 N89-12621

Quick-disconnect inflatable seal assembly
[NASA-CASE-KSC-11368-1] c 37 N89-13786

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACE STORAGE
Hemispherical latching apparatus
[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPACE SUITS
Universal pilot restraint suit and body support therefor Patent
[NASA-CASE-XAC-00405] c 05 N70-41819

Space suit pressure stabilizer Patent
[NASA-CASE-XLA-05332] c 05 N71-11194

Equipotential space suit Patent
[NASA-CASE-LAR-10007-1] c 05 N71-11195

Biological isolation garment Patent
[NASA-CASE-MSC-12206-1] c 05 N71-17599

Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773

Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439

G conditioning suit Patent
[NASA-CASE-XLA-02898] c 05 N71-20268

Hard space suit Patent
[NASA-CASE-XAC-07043] c 05 N71-23161

Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256

Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285

Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097

Space suit having improved waist and torso movement
[NASA-CASE-ARC-10275-1] c 05 N72-22092

Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071

Space suit
[NASA-CASE-MSC-12609-1] c 05 N73-32012

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679

Emergency space-suit helmet
[NASA-CASE-MSC-10954-1] c 54 N78-18761

Spacesuit mobility joints
[NASA-CASE-ARC-11058-1] c 54 N78-31735

Spacesuit torso closure
[NASA-CASE-ARC-11100-1] c 54 N78-31736

Cooling system for removing metabolic heat from an hermetically sealed spacesuit
[NASA-CASE-ARC-11059-1] c 54 N78-32721

Spacesuit mobility knee joints
[NASA-CASE-ARC-11058-2] c 54 N79-24651

Absorbent product to absorb fluids --- for collection of human wastes
[NASA-CASE-MSC-18223-1] c 24 N82-29362

Torso sizing ring construction for hard space suit
[NASA-CASE-ARC-11616-1] c 54 N86-28618

Elbow and knee joint for hard space suits
[NASA-CASE-ARC-11610-1] c 54 N86-28619

Shoulder and hip joint for hard space suits
[NASA-CASE-ARC-11543-1] c 54 N86-28620

Shoulder and hip joints for hard space suits and the like
[NASA-CASE-ARC-11534-1] c 54 N86-29507

Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344

Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206

Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACE TOOLS
Pneumatic inflatable end effector
[NASA-CASE-MFS-23696-1] c 54 N81-26718

SPACE TRANSPORTATION SYSTEM
Coupling device for moving vehicles
[NASA-CASE-GSC-12322-1] c 37 N80-14398

Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] c 18 N84-27787

SPACE VEHICLE CHECKOUT PROGRAM
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604

Electronic checkout system for space vehicles Patent
[NASA-CASE-XKS-08012-2] c 31 N71-15566

High pressure gas filter system Patent
[NASA-CASE-MFS-12806] c 14 N71-17588

SPACEBORNE EXPERIMENTS
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

SPACEBORNE TELESCOPES
Anastigmatic three-mirror telescope
[NASA-CASE-MFS-23675-1] c 89 N79-10969

Cooled echelle grating spectrometer --- for space telescope applications
[NASA-CASE-NPO-14372-1] c 35 N80-26635

Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015

Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] c 74 N84-23248

Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124

Self indexing latch system
[NASA-CASE-MFS-25956-1] c 37 N87-21333

SPACECRAFT
Interconnection of solar cells Patent
[NASA-CASE-XGS-01475] c 03 N71-11058

Attitude sensor for space vehicles Patent
[NASA-CASE-XLA-00793] c 21 N71-22880

Solar cell and circuit array and process for nullifying magnetic fields Patent
[NASA-CASE-XGS-03390] c 03 N71-23187

High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850

Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] c 18 N84-22609

SPACECRAFT ANTENNAS
Parasitic probe antenna Patent
[NASA-CASE-XKS-09348] c 09 N71-13521

Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965

Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

Omnidirectional slot antenna for mounting on cylindrical space vehicle
[NASA-CASE-LAR-10163-1] c 09 N72-25247

Singly-curved reflector for use in high-gain antennas
[NASA-CASE-NPO-11361] c 07 N72-32169

Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176

Multi-channel rotating optical interface for data transmission
[NASA-CASE-NPO-14066-1] c 74 N79-34011

Antenna deployment mechanism for use with a spacecraft --- extensible and retractable telescopic antenna mast
[NASA-CASE-GSC-12331-1] c 18 N80-14183

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPACECRAFT CABIN ATMOSPHERES

Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792

Nonflammable coating compositions --- for use in high oxygen environments
[NASA-CASE-MFS-20486-2] c 27 N74-17283

Regenerable device for scrubbing breathable air of CO₂ and moisture without special heat exchanger equipment
[NASA-CASE-MSC-14771-1] c 54 N77-32722

SPACECRAFT CABINS

Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860

SPACECRAFT COMMUNICATION

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Phase-shift data transmission system having a pseudo-noise SYNC code modulated with the data in a single channel Patent
[NASA-CASE-XNP-00911] c 08 N70-41961

Tracking receiver Patent
[NASA-CASE-XGS-08679] c 10 N71-21473

Omnidirectional microwave spacecraft antenna Patent
[NASA-CASE-XLA-03114] c 09 N71-22888

VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864

Switchable beamwidth monopulse method and system
[NASA-CASE-GSC-11924-1] c 33 N76-27472

Antenna feed system for receiving circular polarization and transmitting linear polarization
[NASA-CASE-NPO-14362-1] c 32 N80-16261

Common data buffer system --- communication with computational equipment utilized in spacecraft operations
[NASA-CASE-KSC-11048-1] c 62 N81-24779

Apparatus and method for determining the position of a radiant energy source
[NASA-CASE-GSC-12147-1] c 32 N81-27341

Measurement apparatus and procedure for the determination of surface emissivities
[NASA-CASE-LAR-13455-1] c 32 N87-21206

Reed-Solomon decoder
[NASA-CASE-NPO-15982-1] c 60 N87-21591

SPACECRAFT COMPONENTS
Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737

Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673

Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906

Omnidirectional anisotropic molecular trap Patent
[NASA-CASE-XGS-00783] c 30 N71-17788

Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968

Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912

Redundant actuating mechanism Patent
[NASA-CASE-XGS-08718] c 15 N71-24600

Space simulator Patent
[NASA-CASE-NPO-10141] c 11 N71-24964

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903

Scientific experiment flexible mount
[NASA-CASE-MSC-12372-1] c 31 N72-25842

Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136

Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397

Variable ratio mixed-mode bilateral master-slave control system for shuttle remote manipulator system
[NASA-CASE-MSC-14245-1] c 18 N75-27041

High temperature penetrator assembly with bayonet plug and ramp-activated lock
[NASA-CASE-MSC-18526-1] c 37 N82-24494

Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

Spacecraft component heater control system
[NASA-CASE-MFS-28327-1] c 18 N89-28556

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACECRAFT CONFIGURATIONS
Inflatable honeycomb Patent
[NASA-CASE-XLA-00204] c 32 N70-36536

Space and atmospheric reentry vehicle Patent
[NASA-CASE-XGS-00260] c 31 N70-37924

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Space shuttle vehicle and system
[NASA-CASE-MSC-12433] c 31 N73-14854

Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] c 16 N84-27784

SPACECRAFT CONSTRUCTION MATERIALS

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747

Method of making a composite sandwich lattice structure
[NASA-CASE-LAR-11898-2] c 24 N78-17149

Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-3] c 27 N87-23736

Aluminum alloy
[NASA-CASE-LAR-13924-1-CU] c 26 N89-28621

SPACECRAFT CONTROL

Light sensitive digital aspect sensor Patent
[NASA-CASE-XGS-00359] c 14 N70-34158

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395

Parachute glider Patent
[NASA-CASE-XLA-00898] c 02 N70-36804

Attitude control for spacecraft Patent
[NASA-CASE-XNP-00294] c 21 N70-36938

Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Hypersonic reentry vehicle Patent
[NASA-CASE-XMS-04142] c 31 N70-41631

Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856

Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771

Spacecraft experiment pointing and attitude control system Patent
[NASA-CASE-XLA-05464] c 21 N71-14132

Attitude control system Patent
[NASA-CASE-XGS-04393] c 21 N71-14159

Reactance control system Patent
[NASA-CASE-XMF-01598] c 21 N71-15583

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Inertial reference apparatus Patent
[NASA-CASE-XAC-03107] c 23 N71-16098

Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081

Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173

Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766

Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368

Three axis attitude control system
[NASA-CASE-GSC-12970-1] c 08 N88-23808

SPACECRAFT DESIGN

Lunar landing flight research vehicle Patent
[NASA-CASE-XFR-00929] c 31 N70-34966

Space capsule Patent
[NASA-CASE-XLA-01332] c 31 N71-15664

Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080

Method and apparatus for securing to a spacecraft Patent
[NASA-CASE-MFS-11133] c 31 N71-16222

Aerodynamic protection for space flight vehicles Patent
[NASA-CASE-XNP-02507] c 31 N71-17679

Self supporting space vehicle Patent
[NASA-CASE-XLA-00117] c 31 N71-17680

Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730

Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859

Space vehicle
[NASA-CASE-MFS-22734-1] c 18 N75-19329

Space vehicle system
[NASA-CASE-MSC-12561-1] c 18 N76-17185

Method and apparatus for neutralizing potentials induced on spacecraft surfaces
[NASA-CASE-GSC-11963-1] c 33 N77-10429

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Aerospace vehicle
[NASA-CASE-LAR-13155-1] c 05 N86-19310

A two-stage earth-to-orbit transport with translating oblique wings for booster recovery
[NASA-CASE-LAR-14156-1] c 16 N90-16781

SPACECRAFT DOCKING

Expanding center probe and drogue Patent
[NASA-CASE-XMS-03613] c 31 N71-16346

Docking structure for spacecraft Patent
[NASA-CASE-XMF-05941] c 31 N71-23912

Latching mechanism Patent
[NASA-CASE-MSC-15474-1] c 15 N71-26162

Docking structure for spacecraft
[NASA-CASE-MFS-20863] c 31 N73-26876

Latch mechanism
[NASA-CASE-MSC-12549-1] c 37 N74-27903

Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186

Multiple in-line docking capability for rotating space stations
[NASA-CASE-MFS-20855-1] c 15 N77-10112

Combined docking and grasping device
[NASA-CASE-MFS-23088-1] c 37 N77-23483

Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519

Satellite retrieval system
[NASA-CASE-MFS-25403-1] c 18 N83-29303

Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] c 18 N84-22605

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] c 33 N86-20669

Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266

Space module assembly apparatus with docking alignment flexibility and restraint
[NASA-CASE-MSC-21211-1] c 18 N89-28553

Docking system for spacecraft
[NASA-CASE-MSC-21327-1] c 18 N90-11798

SPACECRAFT ELECTRONIC EQUIPMENT

Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391

Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647

Nose cone mounted heat resistant antenna Patent
[NASA-CASE-XMS-04312] c 07 N71-22984

Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] c 33 N84-14423

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] c 18 N84-22612

SPACECRAFT ENVIRONMENTS

Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203

Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649

Dual solid cryogenics for spacecraft refrigeration Patent
[NASA-CASE-GSC-10188-1] c 23 N71-24725

Dual stage check valve
[NASA-CASE-MSC-13587-1] c 15 N73-30459

Metering gun for dispensing precisely measured charges of fluid
[NASA-CASE-MFS-21163-1] c 54 N74-17853

Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356

SPACECRAFT EQUIPMENT

Four-terminal electrical testing device --- initiator bridewire resistance
[NASA-CASE-MSC-21166-1] c 35 N87-25555

Range and range rate system
[NASA-CASE-MSC-20867-1] c 36 N88-24958

Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392

Surface tension confined liquid cryogen cooler
[NASA-CASE-GSC-13112-1] c 31 N89-29578

SPACECRAFT GUIDANCE

Ejection unit Patent
[NASA-CASE-XNP-00676] c 15 N70-38996

Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688

Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040

Azimuth laying system Patent
[NASA-CASE-XMF-01669] c 21 N71-23289

Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243

Echo tracker/range finder for radars and sonars
[NASA-CASE-NPO-14361-1] c 32 N82-23376

SPACECRAFT INSTRUMENTS

Mechanical coordinate converter Patent
[NASA-CASE-XNP-00614] c 14 N70-36907

Air bearing Patent
[NASA-CASE-XMF-00339] c 15 N70-39896

Folding boom assembly Patent
[NASA-CASE-XGS-00938] c 32 N70-41367

Pressurized cell micrometeoroid detector Patent
[NASA-CASE-XLA-00936] c 14 N71-14996

Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

Clamping assembly for inertial components Patent
[NASA-CASE-XMS-02184] c 15 N71-20813

Optical projector system Patent
[NASA-CASE-XNP-03853] c 23 N71-21882

Combined optical attitude and altitude indicating instrument Patent
[NASA-CASE-XLA-01907] c 14 N71-23268

Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118

Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624

Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513

Deployable pressurized cell structure for a micrometeoroid detector
[NASA-CASE-LAR-10295-1] c 35 N74-21062

Distributed-switch Dicke radiometers
[NASA-CASE-GSC-12219-1] c 35 N80-18359

Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297

Stirling cycle cryogenic cooler
[US-PATENT-4,389,849] c 44 N83-28574

Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026

Optical system
[NASA-CASE-NPO-15801-1] c 74 N85-23396

Fully redundant mechanical release actuator
[NASA-CASE-LAR-13198-1] c 37 N87-23983

SPACECRAFT LANDING

Non-reusable kinetic energy absorber Patent
[NASA-CASE-XLE-00810] c 15 N70-34861

Foam generator Patent
[NASA-CASE-XLA-00838] c 03 N70-36778

Discrete local altitude sensing device Patent
[NASA-CASE-XMS-03792] c 14 N70-41812

SPACECRAFT LAUNCHING

Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694

Disconnect unit
[NASA-CASE-NPO-11330] c 33 N73-26958

SPACECRAFT MODELS

Apparatus for measuring electric field strength on the surface of a model vehicle Patent
[NASA-CASE-XLE-02038] c 09 N71-16086

SPACECRAFT MODULES

Radial module space station Patent
[NASA-CASE-XMS-01906] c 31 N70-41373

Multi-mission module Patent
[NASA-CASE-XMF-01543] c 31 N71-17730

Spacecraft Patent
[NASA-CASE-MSC-13047-1] c 31 N71-25434

Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829

SPACECRAFT MOTION

Magnetic suspension and pointing system --- on a carrier vehicle

[NASA-CASE-LAR-11889-1] c 35 N79-26372

SPACECRAFT POSITION INDICATORS

Device for determining relative angular position between a spacecraft and a radiation emitting celestial body

[NASA-CASE-GSC-11444-1] c 14 N73-28490

Spacecraft attitude sensor

[NASA-CASE-GSC-10890-1] c 21 N73-30640

SPACECRAFT POWER SUPPLIES

Spacecraft battery seals

[NASA-CASE-XGS-03864] c 15 N69-24320

Space vehicle electrical system Patent

[NASA-CASE-XMF-00517] c 03 N70-34157

Ionospheric battery Patent

[NASA-CASE-XGS-01593] c 03 N70-35408

Generator for a space power system Patent

[NASA-CASE-XLE-04250] c 09 N71-20446

Monostable multivibrator

[NASA-CASE-GSC-10082-1] c 10 N72-20221

Stacked solar cell arrays

[NASA-CASE-NPO-11771] c 03 N73-20040

Thermoelectric power system --- for spacecraft

[NASA-CASE-MFS-22002-1] c 44 N76-16612

Solar energy power system

[NASA-CASE-MFS-21628-2] c 44 N76-23675

Module failure isolation circuit for paralleled inverters

--- preventing system failure during power conditioning for spacecraft applications

[NASA-CASE-NPO-14000-1] c 33 N79-24254

Linear magnetic motor/generator --- to generate electric energy using magnetic flux for spacecraft power supply

[NASA-CASE-GSC-12518-1] c 33 N82-24421

Solar driven liquid metal MHD power generator

[NASA-CASE-LAR-12495-1] c 44 N83-28573

Rotatable electric cable connecting system

[NASA-CASE-GSC-12899-1] c 33 N86-20669

Liquid hydrogen polygeneration system and process

[NASA-CASE-KSC-11304-2] c 28 N86-23744

Bidirectional control system for energy flow in solar powered flywheel

[NASA-CASE-MFS-25978-1] c 44 N87-21410

Arcjet power supply and start circuit

[NASA-CASE-LEW-14374-1] c 09 N88-28939

SPACECRAFT PROPULSION

Colloid propulsion method and apparatus Patent

[NASA-CASE-XLE-00817] c 28 N70-33265

Trajectory-correction propulsion system Patent

[NASA-CASE-XNP-01104] c 28 N70-39931

Ion engine casing construction and method of making same Patent

[NASA-CASE-XNP-06942] c 28 N71-23293

Voice operated controller Patent

[NASA-CASE-XLA-04063] c 31 N71-33160

Solid propellant motor

[NASA-CASE-NPO-11458A] c 20 N78-32179

General purpose rocket furnace

[NASA-CASE-MFS-23460-1] c 12 N79-26075

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion

[NASA-CASE-NPO-14170-1] c 37 N81-15364

SPACECRAFT RADIATORS

Thermal control canister

[NASA-CASE-GSC-12253-1] c 34 N79-31523

Thermal control system --- removing waste heat from industrial process spacecraft

[NASA-CASE-GSC-12771-1] c 34 N84-14461

Radiative cooler --- spacecraft radiators

[NASA-CASE-NPO-15465-1] c 34 N84-22903

Multi-leg heat pipe evaporator

[NASA-CASE-MSC-20812-1] c 34 N86-27593

Space vehicle thermal rejection system

[NASA-CASE-LAR-13738-1] c 18 N87-29586

Gas particle radiator

[NASA-CASE-LEW-14297-1] c 35 N89-12048

Liquid sheet radiator apparatus

[NASA-CASE-LEW-14295-1] c 31 N89-14348

SPACECRAFT RECOVERY

Assembly for recovering a capsule Patent

[NASA-CASE-XMF-00641] c 31 N70-36410

Wing deployment method and apparatus Patent

[NASA-CASE-XMS-00907] c 02 N70-41630

Satellite retrieval system

[NASA-CASE-MFS-25403-1] c 18 N83-29303

Apparatus and method of capturing an orbiting spacecraft

[NASA-CASE-MSC-20979-1] c 37 N87-22985

SPACECRAFT REENTRY

Space capsule Patent

[NASA-CASE-XLA-00149] c 31 N70-37938

Event recorder Patent

[NASA-CASE-XLA-01832] c 14 N71-21006

Ceramic-ceramic shell tile thermal protection system and method thereof

[NASA-CASE-ARC-11641-1] c 24 N88-18628

SPACECRAFT SHIELDING

Aerodynamic protection for space flight vehicles

Patent

[NASA-CASE-XNP-02507] c 31 N71-17679

Isothermal cover with thermal reservoirs Patent

[NASA-CASE-MFS-20355] c 33 N71-25353

Stabilized zinc oxide coating compositions Patent

[NASA-CASE-XMF-07770-2] c 18 N71-26772

Electrically conductive thermal control coatings

[NASA-CASE-GSC-12207-1] c 24 N79-14156

Thermal insulation protection means

[NASA-CASE-MSC-12737-1] c 24 N79-25142

Thermal barrier pressure seal --- shielding junctions between spacecraft control surfaces and structures

[NASA-CASE-MSC-18134-1] c 37 N81-15363

High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding

[NASA-CASE-ARC-11164-1] c 44 N83-34448

Variable anodic thermal control coating

[NASA-CASE-LAR-12719-1] c 44 N83-34449

Shell tile thermal protection system

[NASA-CASE-LAR-12862-1] c 27 N84-27886

Mechanical fastener

[NASA-CASE-LAR-12738-2] c 37 N85-30335

SPACECRAFT STABILITY

Reaction wheel scanner Patent

[NASA-CASE-XGS-02629] c 14 N71-21082

Attitude sensor

[NASA-CASE-LAR-10586-1] c 19 N74-15089

Angular momentum control device used for stabilization of space vehicles and the like

[NASA-CASE-LAR-11051-1] c 15 N76-14158

Tetherline system for orbiting satellites

[NASA-CASE-MFS-23564-1] c 15 N78-25119

Active nutation controller

[NASA-CASE-GSC-12273-1] c 35 N80-21719

Method of damping nutation motion with minimum spin axis attitude disturbance

[NASA-CASE-GSC-12551-1] c 18 N83-28064

SPACECRAFT STRUCTURES

Collapsible loop antenna for space vehicle Patent

[NASA-CASE-XMF-00437] c 07 N70-40202

Electro-optical alignment control system Patent

[NASA-CASE-XMF-00908] c 14 N70-40238

Spacecraft radiator cover Patent

[NASA-CASE-MSC-12049] c 31 N71-16080

Satellite appendage tie down cord Patent

[NASA-CASE-XGS-02554] c 31 N71-21064

Thermal control panel Patent

[NASA-CASE-XLA-07728] c 33 N71-22890

Inflatable tether Patent

[NASA-CASE-XMS-10993] c 15 N71-28936

Delayed simultaneous release mechanism

[NASA-CASE-GSC-10814-1] c 03 N73-20039

Pressurized panel

[NASA-CASE-XLA-08916-2] c 14 N73-28487

Structural heat pipe --- for spacecraft wall thermal insulation system

[NASA-CASE-GSC-11619-1] c 34 N75-12222

Auger attachment method for insulation --- of spacecraft

[NASA-CASE-MSC-12615-1] c 37 N76-19437

Particulate and solar radiation stable coating for spacecraft

[NASA-CASE-LAR-10805-2] c 34 N77-18382

Pneumatic inflatable end effector

[NASA-CASE-MFS-23696-1] c 54 N81-26718

Curved cap corrugated sheet

[NASA-CASE-LAR-12884-1] c 18 N84-33450

Elastomer toughened polyimide adhesives --- bonding metal and composite material structures for aircraft and spacecraft

[NASA-CASE-LAR-12775-2] c 27 N85-21349

SPACECRAFT TELEVISION

Electrically-operated rotary shutter Patent

[NASA-CASE-XNP-00637] c 14 N70-40273

Television signal scan rate conversion system Patent

[NASA-CASE-XMS-07168] c 07 N71-11300

Optical conversion method --- for spacecraft television

[NASA-CASE-MSC-12618-1] c 74 N78-17865

SPACECRAFT TEMPERATURE

Space vehicle thermal rejection system

[NASA-CASE-LAR-13738-1] c 18 N87-29586

Capillary heat transport and fluid management device

[NASA-CASE-MFS-28217-1] c 34 N89-14392

SPACECRAFT TRACKING

Ranging system Patent

[NASA-CASE-NPO-10066] c 09 N71-18598

Deep space monitor communication satellite system

Patent

[NASA-CASE-XAC-06029-1] c 31 N71-24813

Optical tracking mount Patent

[NASA-CASE-MFS-14017] c 14 N71-26627

Orbital and entry tracking accessory for globes --- to provide range requirements for reentry vehicles to any landing site

[NASA-CASE-LAR-10626-1] c 19 N74-21015

Conical scan tracking system employing a large antenna

[NASA-CASE-NPO-14009-1] c 32 N79-13214

Efficient detection and signal parameter estimation with application to high dynamic GPS receiver

[NASA-CASE-NPO-17820-1-CU] c 04 N90-18379

SPACECREWS

Orbital escape device Patent

[NASA-CASE-XMS-06162] c 31 N71-28851

SPACELAB PAYLOADS

Hemispherical latching apparatus

[NASA-CASE-MFS-25837-1] c 18 N85-29991

SPALLATION

Method of producing I-123 --- by bombardment of cesium causing spallation

[NASA-CASE-LEW-11390-2] c 25 N76-27383

SPARK CHAMBERS

Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers

[NASA-CASE-GSC-12321-1] c 36 N82-16396

Inorganic spark chamber frame and method of making the same

[NASA-CASE-GSC-12354-1] c 35 N82-24471

SPARK GAPS

Protective circuit of the spark gap type

[NASA-CASE-XAC-08981] c 09 N69-39897

Measurement of time differences between luminous events Patent

[NASA-CASE-XLA-01987] c 23 N71-23976

SPARK IGNITION

High temperature spark plug Patent

[NASA-CASE-XLE-00660] c 28 N70-39925

Plasma igniter for internal combustion engine

[NASA-CASE-NPO-13828-1] c 37 N79-11405

SPARK PLUGS

High temperature spark plug Patent

[NASA-CASE-XLE-00660] c 28 N70-39925

SPATIAL DISTRIBUTION

Propellant mass distribution metering apparatus

Patent

[NASA-CASE-NPO-10185] c 10 N71-26339

SPATIAL FILTERING

Spatial filter for Q-switched lasers

[NASA-CASE-LEW-12164-1] c 36 N77-32478

Real-time optical multiple object recognition and tracking system and method

[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

SPATIAL RESOLUTION

Wide-angle flat field telescope

[NASA-CASE-GSC-12825-1] c 74 N86-28732

SPECIMENS

Method of radiographic inspection of wooden members

[NASA-CASE-LAR-13724-1] c 38 N88-23983

Low temperature storage container for transporting perishables to space station

[NASA-CASE-MFS-28248-1] c 31 N88-24817

SPECKLE PATTERNS

Method and apparatus for reducing speckle

[NASA-CASE-LAR-13771-1] c 36 N89-14428

SPECTRAL BANDS

Multispectral linear array multiband selection device

[NASA-CASE-GSC-12911-1] c 74 N86-29650

SPECTRAL CORRELATION

Correlation spectrometer having high resolution and multiplexing capability

[NASA-CASE-NPO-15558-1] c 35 N84-34705

SPECTRAL REFLECTANCE

Single reflector interference spectrometer and drive system therefor

[NASA-CASE-NPO-11932-1] c 35 N74-23040

SPECTRAL SENSITIVITY

Method and apparatus for enhancing laser absorption sensitivity

[NASA-CASE-NPO-16567-1-CU] c 36 N87-28006

SPECTRAL SIGNATURES

Multispectral imaging and analysis system --- using charge coupled devices and linear arrays

[NASA-C

Compton scatter attenuation gamma ray spectrometer
[NASA-CASE-MFS-21441-1] c 14 N73-30392

Mossbauer spectrometer radiation detector
[NASA-CASE-LAR-11155-1] c 35 N74-15091

Single reflector interference spectrometer and drive system therefor
[NASA-CASE-NPO-11932-1] c 35 N74-23040

Spectrometer integrated with a facsimile camera
[NASA-CASE-LAR-11207-1] c 35 N75-19613

Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245

Ion and electron detector for use in an ICR spectrometer
[NASA-CASE-NPO-13479-1] c 35 N77-10492

Frequency-scanning particle size spectrometer
[NASA-CASE-NPO-13606-2] c 35 N80-18364

Velocity servo for continuous scan Fourier interference spectrometer
[NASA-CASE-NPO-14093-1] c 35 N80-20563

Visible and infrared polarization ratio spectrophotometer
[NASA-CASE-LAR-12285-1] c 35 N80-28687

Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] c 35 N84-33766

Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] c 35 N84-34705

FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] c 76 N87-13313

Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

A compact fast wide angle broad band spectrometer optical system
[NASA-CASE-NPO-17562-1-CU] c 74 N89-24153

SPECTROPHOTOMETERS

Apparatus for producing three-dimensional recordings of fluorescence spectra Patent
[NASA-CASE-XGS-01231] c 14 N70-41676

High resolution Fourier interferometer-spectrophotopolarimeter
[NASA-CASE-NPO-13604-1] c 35 N76-31490

Differential optoacoustic absorption detector
[NASA-CASE-NPO-13759-1] c 74 N78-17867

SPECTRORADIOMETERS

Compact spectroradiometer
[NASA-CASE-HQN-10683] c 14 N71-34389

SPECTROSCOPIC ANALYSIS

Spectroscope equipment using a slender cylindrical reflector as a substitute for a slit Patent
[NASA-CASE-XGS-08269] c 23 N71-26206

Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber
[NASA-CASE-LAR-13963-1] c 76 N89-14119

SPECTRUM ANALYSIS

Photoelectric energy spectrometer Patent
[NASA-CASE-XNP-04161] c 14 N71-15599

Spectral method for monitoring atmospheric contamination of inert-gas welding shields Patent
[NASA-CASE-XMF-02039] c 15 N71-15871

Method and apparatus for high resolution spectral analysis
[NASA-CASE-NPO-10748] c 08 N72-20177

Stark cell optoacoustic detection of constituent gases in sample
[NASA-CASE-NPO-14143-1] c 25 N81-14015

Method and circuit for controlling the evolution time interval of a laser output pulse
[NASA-CASE-LAR-13772-1] c 36 N89-28816

SPECULAR REFLECTION

Real time reflectometer --- measurement of specular reflectance
[NASA-CASE-MFS-23118-1] c 35 N77-31465

SPEECH BASEBAND COMPRESSION

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

SPEECH RECOGNITION

Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309

SPEED CONTROL

System for maintaining a motor at a predetermined speed utilizing digital feedback means Patent
[NASA-CASE-XMF-06892] c 09 N71-24805

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244

Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070

Low speed phaselock speed control system --- for brushless dc motor
[NASA-CASE-GSC-11127-1] c 09 N75-24758

Speed control device for a heavy duty shaft --- solar sails for spacecraft propulsion
[NASA-CASE-NPO-14170-1] c 37 N81-15364

Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078

SPEED INDICATORS

Miniature electrooptical air flow sensor
[NASA-CASE-LAR-13065-1] c 35 N85-20295

SPEED REGULATORS

A dc motor speed control system Patent
[NASA-CASE-MFS-14610] c 09 N71-28886

SPHERES

Guidance and maneuver analyzer Patent
[NASA-CASE-XNP-09572] c 14 N71-15621

Radar calibration sphere
[NASA-CASE-XLA-11154] c 07 N72-21117

Method of forming frozen spheres in a force-free drop tower
[NASA-CASE-NPO-14845-1] c 27 N82-28442

Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176

Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] c 71 N84-16940

SPHERICAL SHELLS

Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542

Spherical measurement device
[NASA-CASE-XLA-06683] c 14 N72-28436

Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544

Multi-element spherical shell generation
[NASA-CASE-NPO-17203-1-CU] c 34 N89-13728

SPHERICAL TANKS

Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007

SPHERICAL WAVES

Shock wave convergence apparatus
[NASA-CASE-MFS-20890] c 14 N72-22439

SPHYGMOGRAPHY

Logic-controlled occlusive cuff system
[NASA-CASE-MSC-14836-1] c 52 N82-11770

SPIKE NOZZLES

Aerodynamic spike nozzle Patent
[NASA-CASE-XGS-01143] c 31 N71-15647

SPIKE POTENTIALS

Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393

SPILLING

Spillage detector for liquid chromatography systems
[NASA-CASE-MSC-20206-1] c 25 N86-27431

SPIN DYNAMICS

Nutation damper
[NASA-CASE-GSC-11205-1] c 15 N73-25513

Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

Dual towline spin-recovery device
[NASA-CASE-LAR-13076-1] c 08 N85-35200

SPIN REDUCTION

Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485

Despin weight release Patent
[NASA-CASE-XLA-00679] c 15 N70-38601

Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582

Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747

SPIN STABILIZATION

Dynamic precession damper for spin stabilized vehicles Patent
[NASA-CASE-XLA-01989] c 21 N70-34295

Attitude orientation of spin-stabilized space vehicles Patent
[NASA-CASE-XLA-00281] c 21 N70-36943

Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642

Cartwheel satellite synchronization system Patent
[NASA-CASE-XGS-05579] c 31 N71-15676

Velocity package Patent
[NASA-CASE-XLA-01339] c 31 N71-15692

Passive dual spin misalignment compensators --- gyrostabilized device
[NASA-CASE-GSC-11479-1] c 35 N74-28097

Deployable flexible ventral fins for use as an emergency spin recovery device in aircraft
[NASA-CASE-LAR-10753-1] c 08 N74-30421

Active nutation controller
[NASA-CASE-GSC-12273-1] c 35 N80-21719

Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130

Scanner --- photography from a spin stabilized synchronous satellite
[NASA-CASE-GSC-12032-2] c 43 N82-13465

SPINDLES

Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423

SPINE

Spine immobilization apparatus
[NASA-CASE-ARC-11167-1] c 52 N81-25662

SPIRAL ANTENNAS

Spiral slotted phased antenna array
[NASA-CASE-MSC-18532-1] c 32 N82-27558

SPIRAL WRAPPING

Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918

Continuous self-locking spiral wound seal --- for maintaining pressure between chambers in cryogenic wind tunnels
[NASA-CASE-LAR-12315-1] c 37 N82-24490

Modified spiral wound retaining ring
[NASA-CASE-LAR-12361-1] c 37 N83-19091

SPIRALS (CONCENTRATORS)

Spiral groove seal --- for hydraulic rotating shaft
[NASA-CASE-LEW-10326-3] c 37 N74-10474

SPIROMETERS

Balanced bellows spirometer
[NASA-CASE-XAR-01547] c 05 N69-21473

SPLICING

Optimized bolted joint
[NASA-CASE-LAR-13250-1] c 37 N86-27630

SPLINTS

Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

SPOILERS

Hydraulic actuator mechanism to control aircraft spoiler movements through dual input commands
[NASA-CASE-LAR-12412-1] c 08 N82-24205

SPORES

Lyophilized spore dispenser
[NASA-CASE-LAR-10544-1] c 37 N74-13178

SPOT WELDS

Electric arc welding Patent
[NASA-CASE-XMF-00392] c 15 N70-34814

Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433

SPRAY CHARACTERISTICS

Constant-output atomizer --- Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] c 34 N84-12406

SPRAY NOZZLES

Rocket injector head
[NASA-CASE-XMF-04592-1] c 20 N79-21125

Fire extinguishing apparatus having a slidable mass for a penetrator nozzle --- for penetrating aircraft and shuttle orbiter skin
[NASA-CASE-KSC-11064-1] c 31 N81-14137

Controlled overspray spray nozzle
[NASA-CASE-MFS-25139-1] c 34 N82-13376

Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689

SPRAYED COATINGS

Method of making a diffusion bonded refractory coating Patent
[NASA-CASE-XLE-01604-2] c 15 N71-15610

Thermal protection ablation spray system Patent
[NASA-CASE-XLA-04251] c 18 N71-26100

Peen plating
[NASA-CASE-GSC-11163-1] c 15 N73-32360

Sprayable low density ablator and application process
[NASA-CASE-MFS-23506-1] c 24 N78-24290

Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492

Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855

Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] c 26 N86-32550

SPRAYERS

External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372

Method and apparatus for attaching physiological monitoring electrodes Patent
[NASA-CASE-XFR-07658-1] c 05 N71-26293

Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152

Closed loop spray cooling apparatus --- for particle accelerator targets
[NASA-CASE-LEW-11981-1] c 31 N78-17237

- Spray coating apparatus having a rotatable workpiece holder
[NASA-CASE-ARC-11110-1] c 37 N82-24492
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MS-C-18852-1] c 37 N85-29283
- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255
- Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
- Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] c 09 N89-25242
- SPRAYING**
- Aircraft wheel spray drag alleviator Patent
[NASA-CASE-XLA-01583] c 02 N70-36825
- Closed loop spray cooling apparatus
[NASA-CASE-LEW-11981-2] c 34 N79-20336
- Method and apparatus for suppressing ignition overpressure in solid rocket propulsion systems
[NASA-CASE-MFS-25843-1] c 20 N83-17588
- SPREAD SPECTRUM TRANSMISSION**
- Navigation system and method
[NASA-CASE-GSC-12508-1] c 04 N84-22546
- SPREADING**
- Tool attachment for spreading loose elements away from work Patent
[NASA-CASE-XMF-02107] c 15 N71-10809
- SPRINGS (ELASTIC)**
- Bellville spring assembly with elastic guides
[NASA-CASE-XNP-09452] c 15 N69-27504
- Multiple Bellville spring assembly Patent
[NASA-CASE-XNP-00840] c 15 N70-38225
- Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
- Load cell protection device Patent
[NASA-CASE-XMS-06782] c 32 N71-15974
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Spring operated accelerator and constant force spring mechanism therefor
[NASA-CASE-ARC-10898-1] c 35 N77-18417
- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] c 37 N84-11497
- Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] c 37 N84-12492
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797
- Rotary stepping device with memory metal actuator
[NASA-CASE-NPO-15482-1] c 37 N87-23970
- Locking hinge
[NASA-CASE-MSC-21056-1] c 18 N88-23827
- SPUTTERING**
- A method for the deposition of beta-silicon carbide by isoeptitaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Method and apparatus for sputtering utilizing an apertured electrode and a pulsed substrate bias
[NASA-CASE-LEW-10920-1] c 17 N73-24569
- Sputtering holes with ion beamlets
[NASA-CASE-LEW-11646-1] c 20 N74-31269
- Multitarget sequential sputtering apparatus
[NASA-CASE-NPO-13345-1] c 37 N75-19684
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
- Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
- Diamondlike flake composites
[NASA-CASE-LEW-13837-1] c 24 N84-22695
- Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] c 52 N84-23095
- Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
- Oxidation protection coatings for polymers
[NASA-CASE-LEW-14072-1] c 27 N86-19458
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
- SQUARE WAVES**
- High speed phase detector Patent
[NASA-CASE-XNP-01306-2] c 09 N71-24596
- SQUARES (MATHEMATICS)**
- Apparatus for computing square roots Patent
[NASA-CASE-XGS-04768] c 08 N71-19437
- SQUEEZE FILMS**
- Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] c 37 N85-33490
- SQUIBS**
- Separation nut Patent
[NASA-CASE-XGS-01971] c 15 N71-15922
- SQUID (DETECTORS)**
- Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
- STABILITY**
- Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790
- Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266
- STABILITY AUGMENTATION**
- Velocity vector control system augmented with direct lift control
[NASA-CASE-LAR-12268-1] c 08 N81-24106
- Leading edge flap system for aircraft control augmentation
[NASA-CASE-LAR-12787-2] c 08 N85-19985
- STABILITY TESTS**
- Method and apparatus for checking the stability of a setup for making reflection type holograms
[NASA-CASE-MFS-21455-1] c 35 N74-15146
- STABILIZATION**
- Ultrastable calibrated light source
[NASA-CASE-MSC-12293-1] c 14 N72-27411
- System for stabilizing torque between a balloon and gondola
[NASA-CASE-GSC-11077-1] c 02 N73-13008
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
- Arc control in compact arc lamps
[NASA-CASE-NPO-10870-1] c 33 N77-22386
- Self-stabilizing radial face seal
[NASA-CASE-LEW-12991-1] c 37 N81-24442
- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333
- Stabilization and oscillation of an acoustically levitated object
[NASA-CASE-NPO-16896-1-CU] c 71 N89-13236
- STABILIZED PLATFORMS**
- Hydraulic drive mechanism Patent
[NASA-CASE-XMS-03252] c 15 N71-10658
- Failure detection and control means for improved drift performance of a gimbaled platform system
[NASA-CASE-MFS-23551-1] c 04 N76-26175
- Rotary leveling base platform
[NASA-CASE-ARC-10981-1] c 37 N78-27425
- Magnetic bearing and motor
[NASA-CASE-GSC-12726-1] c 37 N83-34323
- STABILIZERS**
- Satellite despin device Patent
[NASA-CASE-XMF-08523] c 31 N71-20396
- STABILIZERS (AGENTS)**
- Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699
- STABILIZERS (FLUID DYNAMICS)**
- Assembly for recovering a capsule Patent
[NASA-CASE-XMF-00641] c 31 N70-36410
- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Apparatus for automatically stabilizing the attitude of a nonguided vehicle
[NASA-CASE-ARC-10134] c 30 N72-17873
- Life raft stabilizer
[NASA-CASE-MSC-12393-1] c 02 N73-26006
- Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460
- STABLE OSCILLATIONS**
- Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
- STACKS**
- Remote fire stack igniter --- with solenoid-controlled valve
[NASA-CASE-MFS-21675-1] c 25 N74-33378
- STAR SEPARATION**
- Tubular coupling having frangible connecting means
[NASA-CASE-XLA-02854] c 15 N69-27490
- Missile stage separation indicator and stage initiator Patent
[NASA-CASE-XLA-00791] c 03 N70-39930
- Quick release separation mechanism Patent
[NASA-CASE-XLA-01441] c 15 N70-41679
- Spacecraft separation system for spinning vehicles and/or payloads Patent
[NASA-CASE-XLA-02132] c 31 N71-10582
- Payload/burned-out motor case separation system Patent
[NASA-CASE-XLA-05369] c 31 N71-15687
- Single action separation mechanism Patent
[NASA-CASE-XLA-00188] c 15 N71-22874
- Lateral displacement system for separated rocket stages Patent
[NASA-CASE-XLA-04804] c 31 N71-23008
- Separation simulator Patent
[NASA-CASE-XKS-04631] c 10 N71-23663
- Frangible link
[NASA-CASE-MSC-11849-1] c 15 N72-22488
- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610
- STAGNATION PRESSURE**
- Traversing probe Patent
[NASA-CASE-XFR-02007] c 12 N71-24692
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- STAGNATION TEMPERATURE**
- Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
- STAINING**
- Automated single-slide staining device
[NASA-CASE-LAR-11649-1] c 51 N77-27677
- STAINLESS STEELS**
- Method of joining aluminum to stainless steel Patent
[NASA-CASE-MFS-07369] c 15 N71-20443
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
- Method of making reinforced composite structure
[NASA-CASE-LEW-12619-1] c 24 N77-19171
- Moving body velocity arresting line --- stainless steel cables with energy absorbing sleeves
[NASA-CASE-LAR-12372-1] c 37 N82-18601
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- STAMPING**
- Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] c 37 N84-12491
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- STANDARDS**
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
- A reference standard for bidirectional reflection distribution function and bidirectional transmission distribution function measurement
[NASA-CASE-MFS-28183-1] c 74 N89-13253
- STANDING WAVES**
- Method and apparatus for shaping and enhancing acoustical levitation forces
[NASA-CASE-MFS-25050-1] c 71 N81-15767
- Image readout device with electronically variable spatial resolution
[NASA-CASE-LAR-12633-1] c 33 N82-24416
- Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
- System for controlled acoustic rotation of objects
[NASA-CASE-NPO-15522-1] c 71 N83-32516
- Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- STAR TRACKERS**
- Roll attitude star sensor system Patent
[NASA-CASE-XNP-01307] c 21 N70-41856
- Sun tracker with rotatable plane-parallel plate and two photocells Patent
[NASA-CASE-XGS-01159] c 21 N71-10678
- Canopus detector including automotive gain control of photomultiplier tube Patent
[NASA-CASE-XNP-03914] c 21 N71-10771
- Spacecraft attitude detection system by stellar reference Patent
[NASA-CASE-XGS-03431] c 21 N71-15642
- Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

STARK EFFECT

- Star tracking reticles and process for the production thereof
 - [NASA-CASE-GSC-11188-2] c 21 N73-19630
- Star tracking reticles
 - [NASA-CASE-GSC-11188-1] c 14 N73-32320
- Formation of star tracking reticles
 - [NASA-CASE-GSC-11188-3] c 74 N74-20008
- Star scanner --- with a reticle with a pair of slits having differing separation
 - [NASA-CASE-GSC-11569-1] c 89 N74-30886
- Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
 - [NASA-CASE-NPO-15345-1] c 74 N84-23247

STARK EFFECT

- Resonant waveguide stark cell --- using microwave spectrometers
 - [NASA-CASE-LAR-11352-1] c 33 N75-26245
- Stark-effect modulation of CO₂ laser with NH₂D
 - [NASA-CASE-NPO-11945-1] c 36 N76-18427
- Stark cell optoacoustic detection of constituent gases in sample
 - [NASA-CASE-NPO-14143-1] c 25 N81-14015
- Stark effect spectrophone for continuous absorption spectra monitoring --- a technique for gas analysis
 - [NASA-CASE-NPO-15102-1] c 25 N81-25159

STARTERS

- Starting circuit for vapor lamps and the like Patent
 - [NASA-CASE-XNP-01058] c 09 N71-12540
- Motor run-up system --- power lines
 - [NASA-CASE-NPO-13374-1] c 33 N75-19524
- Motor power factor controller with a reduced voltage starter
 - [NASA-CASE-MFS-25586-1] c 33 N82-11360

STARTING

- Portable device for use in starting air-start-units for aircraft and having cable lead testing capability
 - [NASA-CASE-FRC-10113-1] c 33 N80-26599
- Arcjet power supply and start circuit
 - [NASA-CASE-LEW-14374-1] c 09 N88-28939

STATIC DEFORMATION

- Acoustic radiation stress measurement
 - [NASA-CASE-LAR-13440-1] c 71 N87-21653

STATIC DISCHARGES

- Use of glow discharge in fluidized beds
 - [NASA-CASE-ARC-11245-1] c 28 N82-18401

STATIC FRICTION

- Friction measuring apparatus Patent
 - [NASA-CASE-XNP-08680] c 14 N71-22995
- Static coefficient test method and apparatus
 - [NASA-CASE-GSC-11893-1] c 35 N76-31489

STATIC INVERTERS

- Static inverters which sum a plurality of waves Patent
 - [NASA-CASE-XMF-00663] c 08 N71-18752
- Static inverter Patent
 - [NASA-CASE-XGS-05289] c 09 N71-19470

STATIC LOADS

- Instrument for measuring torsional creep and recovery Patent
 - [NASA-CASE-XLE-01481] c 14 N71-10781
- Tension measurement device Patent
 - [NASA-CASE-XMS-04545] c 15 N71-22878

STATIC PRESSURE

- Aerodynamic measuring device Patent
 - [NASA-CASE-XLA-00481] c 14 N70-36824
- Check valve assembly for a probe Patent
 - [NASA-CASE-XLA-00128] c 15 N70-37925
- Static pressure probe
 - [NASA-CASE-LAR-11552-1] c 35 N76-14429
- Static pressure orifice system testing method and apparatus
 - [NASA-CASE-LAR-12269-1] c 35 N80-18358
- Apparatus and method for jet noise suppression
 - [NASA-CASE-LAR-11903-2] c 71 N84-14873
- Porous plug for reducing orifice induced pressure error in airfoils
 - [NASA-CASE-LAR-13569-1] c 35 N89-12841

STATIONKEEPING

- Station keeping of a gravity gradient stabilized satellite Patent
 - [NASA-CASE-XLA-03132] c 31 N71-22969

STATISTICAL CORRELATION

- Optical probing of supersonic flows with statistical correlation
 - [NASA-CASE-MFS-20642] c 14 N72-21407

STATOR BLADES

- Stator rotor tools
 - [NASA-CASE-MSC-16000-1] c 37 N78-24544

STATORS

- Nickel base alloy --- for gas turbine engine stator vanes
 - [NASA-CASE-LEW-12270-1] c 26 N77-32280
- Natural turbulence electrical power generator --- using wave action or random motion
 - [NASA-CASE-LAR-11551-1] c 44 N80-29834

- Brushless DC motor control system responsive to control signals generated by a computer or the like
 - [NASA-CASE-NPO-16420-1] c 33 N86-20681
- Damping seal for turbomachinery
 - [NASA-CASE-MFS-25842-2] c 37 N86-20788
- Radial and torsionally controlled magnetic bearing
 - [NASA-CASE-GSC-12957-1] c 37 N87-17038
- Turbomachinery rotor support with damping
 - [NASA-CASE-MFS-28345-1] c 37 N89-28841

STEADY STATE

- Steady state thermal radiometers
 - [NASA-CASE-MFS-21108-1] c 34 N74-27861

STEAM

- Steam cooled rich-burn combustor liner
 - [NASA-CASE-LEW-13609-1] c 25 N90-11824

STEAM TURBINES

- Boiler for generating high quality vapor Patent
 - [NASA-CASE-XLE-00785] c 33 N71-16104

STEELS

- Potassium silicate zinc coatings
 - [NASA-CASE-GSC-10361-1] c 18 N72-23581
- Ion-beam nitriding of steels
 - [NASA-CASE-LEW-14104-2] c 26 N88-14179
- Method and apparatus for non-destructive testing of temper embrittlement in steels
 - [NASA-CASE-LAR-13817-1] c 26 N88-29012

STEERABLE ANTENNAS

- Array phasing device Patent
 - [NASA-CASE-ERC-10046] c 10 N71-18722
- Satellite communication system Patent
 - [NASA-CASE-XNP-02389] c 07 N71-28900
- Amplitude steered array
 - [NASA-CASE-GSC-11446-1] c 33 N74-20860
- Phased array antenna control
 - [NASA-CASE-MSC-14939-1] c 32 N79-11264
- Switched steerable multiple beam antenna system
 - [NASA-CASE-MSC-20873-1-SB] c 32 N89-11961

STEERING

- Steerable solid propellant rocket motor Patent
 - [NASA-CASE-XNP-00234] c 28 N70-38645

STELLAR LUMINOSITY

- Radiant energy intensity measurement system Patent
 - [NASA-CASE-XNP-08510] c 14 N71-23797

STELLAR SPECTRA

- Radiant energy intensity measurement system Patent
 - [NASA-CASE-XNP-08510] c 14 N71-23797

STENCIL PROCESSES

- Method of tracing contour patterns for use in making gradual contour resin matrix composites
 - [NASA-CASE-ARC-11246-1] c 31 N83-34073

STEPPING MOTORS

- Scanner --- photography from a spin stabilized synchronous satellite
 - [NASA-CASE-GSC-12032-2] c 43 N82-13465

STEREOPHOTOGRAPHY

- Stereo photomicrography system
 - [NASA-CASE-LAR-10176-1] c 14 N72-20380
- Optical stereo video signal processor
 - [NASA-CASE-MFS-25752-1] c 74 N86-21348

STEREOSCOPIC VISION

- Stereoscopic television system and apparatus
 - [NASA-CASE-ARC-10160-1] c 23 N72-27728
- Television monitor field shifter and an opto-electronic method for obtaining a stereo image of optimal depth resolution and reduced depth distortion on a single screen
 - [NASA-CASE-NPO-17249-1-CU] c 32 N89-28676

STEREOSCOPY

- Real-time 3-D X-ray and gamma-ray viewer
 - [NASA-CASE-GSC-12640-1] c 74 N84-11920

STERILIZATION

- Process for preparing sterile solid propellants Patent
 - [NASA-CASE-XNP-01749] c 27 N70-41897
- Processing for producing a sterilized instrument Patent
 - [NASA-CASE-XNP-09763] c 14 N71-20461

- Air conditioned suit
 - [NASA-CASE-LAR-10076-1] c 05 N73-20137

- Protein sterilization method of firefly luciferase using reduced pressure and molecular sieves
 - [NASA-CASE-GSC-10225-1] c 06 N73-27086

- Heat sterilizable patient ventilator
 - [NASA-CASE-NPO-13313-1] c 54 N75-27761

- Portable heatable container
 - [NASA-CASE-NPO-14237-1] c 44 N80-20808

- System for sterilizing objects --- cleaning space vehicle systems
 - [NASA-CASE-KSC-11085-1] c 54 N81-24724

STERILIZATION EFFECTS

- Electrical connector
 - [NASA-CASE-NPO-10694] c 09 N72-20200

STIFFENING

- Metal matrix composite structural panel construction
 - [NASA-CASE-LAR-12807-1] c 24 N84-11214

STIFFNESS

- Modified face seal for positive film stiffness
 - [NASA-CASE-LEW-12989-1] c 37 N82-12442

STILBENE

- Vinyl stilbazoles
 - [NASA-CASE-ARC-11429-3CU] c 27 N87-16908

STIMULATED EMISSION

- Repetitively pulsed, wavelength selective laser Patent
 - [NASA-CASE-ERC-10178] c 16 N71-24832

STIRLING CYCLE

- Stirling cycle engine and refrigeration systems
 - [NASA-CASE-NPO-13613-1] c 37 N76-29590
- Power control for hot gas engines
 - [NASA-CASE-NPO-14220-1] c 37 N81-14318
- Phase-angle controller for Stirling engines
 - [NASA-CASE-NPO-14388-1] c 37 N81-17432
- Solar energy receiver for a Stirling engine
 - [NASA-CASE-NPO-14619-1] c 44 N81-17518
- Hot gas engine with dual crankshafts
 - [NASA-CASE-NPO-14221-1] c 37 N81-25370
- Stirling cycle cryogenic cooler
 - [US-PATENT-4,389,849] c 44 N83-28574
- Magnetically actuated compressor
 - [NASA-CASE-GSC-12799-1] c 31 N85-21404

STIRLING ENGINES

- Phase-angle controller for Stirling engines
 - [NASA-CASE-NPO-14388-1] c 37 N81-17432
- Solar energy receiver for a Stirling engine
 - [NASA-CASE-NPO-14619-1] c 44 N81-17518

STIRRING

- Stirring apparatus for plural test tubes Patent
 - [NASA-CASE-XAC-06956] c 15 N71-21177

- Planar oscillatory stirring apparatus
 - [NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

STOICHIOMETRY

- Sulfone-ester polymers containing pendent ethynyl groups
 - [NASA-CASE-LAR-13316-1] c 27 N86-27450
- The 5-(4-Ethynylphenoxy) isophthalic chloride
 - [NASA-CASE-LAR-13316-2] c 27 N87-14515

STORAGE

- Fluid sample collector Patent
 - [NASA-CASE-XMS-06767-1] c 14 N71-20435

- Sodium storage and injection system
 - [NASA-CASE-NPO-14384-1] c 37 N80-10494

STORAGE BATTERIES

- Bonded elastomeric seal for electrochemical cells Patent
 - [NASA-CASE-XGS-02631] c 03 N71-23006
- Automatic battery charger Patent
 - [NASA-CASE-XNP-04758] c 03 N71-24605
- Electric battery and method for operating same Patent
 - [NASA-CASE-XGS-01674] c 03 N71-29129
- Electric storage battery
 - [NASA-CASE-NPO-11021] c 03 N72-20032
- Hydrogen-bromine secondary battery
 - [NASA-CASE-NPO-13237-1] c 44 N76-18641
- Rechargeable battery which combats shape change of the zinc anode
 - [NASA-CASE-HQN-10862-1] c 44 N76-29699
- Electrically rechargeable REDOX flow cell
 - [NASA-CASE-LEW-12220-1] c 44 N77-14581
- Formulated plastic separators for soluble electrode cells --- rubber-ion transport membranes
 - [NASA-CASE-LEW-12358-1] c 44 N79-17313
- Toroidal cell and battery --- storage battery for high amp-hour load applications
 - [NASA-CASE-LEW-12918-1] c 44 N81-24521

STORAGE STABILITY

- Thermally activated foaming compositions Patent
 - [NASA-CASE-LAR-10373-1] c 18 N71-26155
- Gas diffusion liquid storage bag and method of use for storing blood
 - [NASA-CASE-NPO-13930-1] c 52 N79-14749
- Method for retarding dye fading during archival storage of developed color photographic film --- inert atmosphere
 - [NASA-CASE-MFS-23250-1] c 35 N82-11432

STORAGE TANKS

- Expulsion bladder-equipped storage tank structure Patent
 - [NASA-CASE-XNP-00612] c 11 N70-38182
- Method for leakage testing of tanks
 - [NASA-CASE-XMF-02392] c 32 N71-24285
- Zero gravity shadow shield aligner
 - [NASA-CASE-KSC-10622-1] c 31 N72-21893
- Cryogenic container compound suspension strap
 - [NASA-CASE-ARC-11157-1] c 37 N80-18393

STOWAGE (ONBOARD EQUIPMENT)

- Hemispherical latching apparatus
 - [NASA-CASE-MFS-25837-1] c 18 N85-29991
- Locking hinge
 - [NASA-CASE-MSC-21056-1] c 18 N88-23827
- Expandable pallet for space station interface attachments
 - [NASA-CASE-MSC-21117-1] c 18 N88-28958

STRAIN DISTRIBUTION

Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272

STRAIN GAGE ACCELEROMETERS

Accelerometer with FM output Patent
[NASA-CASE-XLA-00492] c 14 N70-34799
Angular accelerometer Patent
[NASA-CASE-XMS-05936] c 14 N70-41682

STRAIN GAGE BALANCES

Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656

STRAIN GAGES

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Wire grid forming apparatus Patent
[NASA-CASE-XLE-00023] c 15 N70-33330
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Difference circuit Patent
[NASA-CASE-XNP-08274] c 10 N71-13537
Strain sensor for high temperatures Patent
[NASA-CASE-XNP-09205] c 14 N71-17657
Extensometer Patent
[NASA-CASE-XMF-04680] c 15 N71-19489
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Method of temperature compensating semiconductor strain gages Patent
[NASA-CASE-XLA-04555-1] c 14 N71-25892
Pulsed excitation voltage circuit for transducers
[NASA-CASE-FRC-10036] c 09 N72-22200
Method of making semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980-2] c 14 N72-28438
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Strain gauge ambiguity sensor for segmented mirror active optical system
[NASA-CASE-MFS-20506-1] c 35 N75-12273
Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
[NASA-CASE-NPO-13423-1] c 33 N75-31329
Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369
Strain gage mounting assembly
[NASA-CASE-NPO-13170-1] c 35 N76-14430
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
Miniature biaxial strain transducer
[NASA-CASE-LAR-11648-1] c 35 N77-14407
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] c 35 N84-12443
Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Method of attaching strain gauges to various materials
[NASA-CASE-LAR-13797-1] c 35 N88-30108

STRAIN MEASUREMENT

Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

STRAIN RATE

Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019

STRAKES

Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] c 05 N84-33400
Helicopter anti-torque system using fuselage strakes
[NASA-CASE-LAR-13630-1] c 08 N88-23809
Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628

STRAPDOWN INERTIAL GUIDANCE

All sky pointing attitude control system
[NASA-CASE-ARC-10716-1] c 35 N77-20399

STRAPS

Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
Cryogenic container compound suspension strap
[NASA-CASE-ARC-11157-1] c 37 N80-18393

STRATIGRAPHY

System for plotting subsoil structure and method therefor
[NASA-CASE-NPO-14191-1] c 31 N80-32584

STREAMS

Apparatus for measuring a sorbate dispersed in a fluid stream
[NASA-CASE-ARC-10896-1] c 35 N78-19465

STRESS ANALYSIS

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440
Light intensity strain analysis
[NASA-CASE-LAR-10765-1] c 32 N73-20740
High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523

STRESS CONCENTRATION

Self-supporting strain transducer
[NASA-CASE-LAR-11263-1] c 35 N75-33369

STRESS CORROSION

Method of inhibiting stress corrosion cracks in titanium alloys Patent
[NASA-CASE-NPO-10271] c 17 N71-16393
Controlled glass bead peening Patent
[NASA-CASE-XLA-07390] c 15 N71-18616

STRESS MEASUREMENT

Semiconductor p-n junction stress and strain sensor
[NASA-CASE-XLA-04980] c 09 N69-27422
Force measuring instrument Patent
[NASA-CASE-XMF-00456] c 14 N70-34705
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Strain coupled servo control system Patent
[NASA-CASE-XLA-08530] c 32 N71-25360
Amplifying ribbon extensometer
[NASA-CASE-LAR-11825-1] c 35 N77-22449
CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

STRESS RELAXATION

Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170

STRESS RELIEVING

All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Steam cooled rich-burn combustor liner
[NASA-CASE-LEW-13609-1] c 25 N90-11824

STRESSES

Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
Strain gauge measuring techniques Patent
[NASA-CASE-XGS-04478] c 14 N71-24233
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Fixture for environmental exposure of structural materials under compression load
[NASA-CASE-LAR-12602-1] c 39 N83-32081

STRETCHERS

Rescue litter flotation assembly Patent
[NASA-CASE-XMS-04170] c 05 N71-22748
Stretcher Patent
[NASA-CASE-XMF-06589] c 05 N71-23159

STRETCHING

Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457

STRINGERS

Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713

STRINGS

Omnidirectional joint Patent
[NASA-CASE-XMS-09635] c 05 N71-24623

STRIP TRANSMISSION LINES

Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

STRUCTURAL ANALYSIS

Window defect planar mapping technique
[NASA-CASE-MSC-19442-1] c 74 N77-10899

STRUCTURAL DESIGN

Life raft Patent
[NASA-CASE-XMS-00863] c 05 N70-34857
High pressure regulator valve Patent
[NASA-CASE-XNP-00710] c 15 N71-10778
Lifting body Patent Application
[NASA-CASE-FRC-10063] c 01 N71-12217

Ring wing tension vehicle Patent
[NASA-CASE-XLA-04901] c 31 N71-24315
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
Lightweight reflector assembly
[NASA-CASE-NPO-13707-1] c 74 N77-28933
Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
Fluid flow meter for measuring the rate of fluid flow in a conduit
[NASA-CASE-MFS-28030-1] c 35 N86-25752
Remotely controlled spray gun
[NASA-CASE-MFS-28110-1] c 37 N87-24689
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-2] c 18 N89-25266
Hybrid butterfly valve
[NASA-CASE-SSC-00004] c 37 N90-15443
Organic cathode for a secondary battery
[NASA-CASE-NPO-17604-1-CU] c 33 N90-16124
High-pressure promoted combustion chamber
[NASA-CASE-MSC-21470-1] c 09 N90-16771
Suitport extra-vehicular access facility
[NASA-CASE-ARC-11635-1] c 18 N90-16860
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138
Releasable clamping apparatus
[NASA-CASE-MFS-28192-1] c 37 N90-17154
Bio-reactor chamber
[NASA-CASE-MSC-20929-1] c 51 N90-17252

STRUCTURAL DESIGN CRITERIA

Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] c 02 N87-16793

STRUCTURAL ENGINEERING

Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895

STRUCTURAL FAILURE

Method and apparatus for nondestructive testing of pressure vessels
[NASA-CASE-NPO-12142-1] c 38 N76-28563

STRUCTURAL MEMBERS

Broadband choke for antenna structure
[NASA-CASE-XMS-05303] c 07 N69-27462
Optical alignment system Patent
[NASA-CASE-XNP-02029] c 14 N70-41955
All-directional fastener Patent
[NASA-CASE-XLA-01807] c 15 N71-10799
Frictionless universal joint Patent
[NASA-CASE-NPO-10646] c 15 N71-28467
Fastener stretcher
[NASA-CASE-GSC-11149-1] c 15 N73-30457
Method of laminating structural members
[NASA-CASE-XLA-11028-1] c 24 N74-27035
Folding structure fabricated of rigid panels
[NASA-CASE-XHQ-02146] c 18 N75-27040
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Mechanical end joint system for structural column elements
[NASA-CASE-LAR-12482-1] c 37 N82-32732
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
Daze fasteners
[NASA-CASE-LAR-13009-2] c 37 N87-22976

STRUCTURAL STABILITY

Latching device
[NASA-CASE-MFS-21606-1] c 37 N75-19685
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737

STRUCTURAL VIBRATION

Electrical connector Patent Application
[NASA-CASE-MFS-14741] c 09 N70-20737
Seismic displacement transducer Patent
[NASA-CASE-XMF-00479] c 14 N70-34794

- Vibrating structure displacement measuring instrument Patent
[NASA-CASE-XLA-03135] c 32 N71-16428
Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
- STRUCTURES**
Arbitrarily shaped model survey system Patent
[NASA-CASE-LAR-10098] c 32 N71-26681
- STRUTS**
Energy absorbing structure Patent Application
[NASA-CASE-MSC-12279-1] c 15 N70-35679
Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
Locking redundant link
[NASA-CASE-LAR-11900-1] c 37 N79-14382
Multiple pure tone elimination strut assembly --- air breathing engines
[NASA-CASE-FRC-11062-1] c 71 N82-16800
Variable length strut with longitudinal compliance and locking capability
[NASA-CASE-MFS-25907-1] c 37 N85-34401
- STUDS (STRUCTURAL MEMBERS)**
Safety-type locking pin
[NASA-CASE-MFS-18495] c 15 N72-11385
Stud-bonding gun
[NASA-CASE-MFS-20299] c 15 N72-11392
Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material
[NASA-CASE-MFS-21485-1] c 37 N74-25968
- STYRENES**
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043
- SUBASSEMBLIES**
Multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] c 37 N85-33489
- SUBCRITICAL FLOW**
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SUBLIMATION**
Tubular sublimatory evaporator heat sink
[NASA-CASE-ARC-10912-1] c 34 N77-19353
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
- SUBMARINES**
Low density bismaleimide-carbon microballoon composites --- aircraft and submarine compartment safety
[NASA-CASE-ARC-11040-2] c 24 N78-27184
- SUBMERGING**
Liquid immersion apparatus for minute articles
[NASA-CASE-MFS-25363-1] c 37 N82-12441
Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- SUBMILLIMETER WAVES**
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127
- SUBMINIATURIZATION**
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
- SUBREFLECTORS**
Dish antenna having switchable beamwidth --- with truncated concave ellipsoid subreflector
[NASA-CASE-GSC-11760-1] c 33 N75-19516
- SUBSONIC SPEED**
Landing arrangement for aerospace vehicle Patent
[NASA-CASE-XLA-00805] c 31 N70-38010
Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497
Airfoil shape for flight at subsonic speeds --- design analysis and aerodynamic characteristics of the GAW-1 airfoil
[NASA-CASE-LAR-10585-1] c 02 N76-22154
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
- SUBSONIC WIND TUNNELS**
Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246

SUBSTRATES

- Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Solar cell mounting Patent
[NASA-CASE-XNP-00826] c 03 N71-20895
Solar panel fabrication Patent
[NASA-CASE-XNP-03413] c 03 N71-26726
Fabrication of polycrystalline solar cells on low-cost substrates
[NASA-CASE-GSC-12022-1] c 44 N76-28635
Process for producing a well-adhered durable optical coating on an optical plastic substrate --- abrasion resistant polymethyl methacrylate lenses
[NASA-CASE-ARC-11039-1] c 74 N78-32854
Attaching of strain gages to substrates
[NASA-CASE-FRC-10093-1] c 35 N80-20560
Method for applying photographic resists to otherwise incompatible substrates
[NASA-CASE-MSC-18107-1] c 27 N81-25209
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
Pyroelectric detector arrays
[NASA-CASE-LAR-12363-1] c 35 N82-31659
Method for depositing an oxide coating
[NASA-CASE-LEW-13131-1] c 44 N83-10494
Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of forming oxide coatings --- for solar collector heating panels
[NASA-CASE-LEW-13132-1] c 27 N83-29388
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] c 36 N84-22944
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] c 26 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] c 26 N84-33555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] c 44 N85-30475
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] c 76 N85-33826
Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] c 26 N85-35267
Oxygen diffusion barrier coating
[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455
- SUBSTRUCTURES**
Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
System for detecting substructure microfractures and method therefore
[NASA-CASE-NPO-14192-1] c 39 N80-10507
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918
- SUCTION**
Method for maintaining precise suction strip porosities
[NASA-CASE-LAR-13638-1] c 31 N90-19427
- SUGARS**
Production of butanol by fermentation in the presence of cocultures of clostridium
[NASA-CASE-NPO-16203-1] c 23 N85-35227
- SULFATES**
Intumescent paints Patent
[NASA-CASE-ARC-10099-1] c 18 N71-15469
- SULFIDES**
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572
- SULFONES**
Electrolytic cell structure
[NASA-CASE-LAR-11042-1] c 33 N75-27252
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethyryl and substituted ethyryl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124
Ethyryl and substituted ethyryl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

- Semi-2-interpenetrating networks of high temperature systems
[NASA-CASE-LAR-13450-1] c 27 N87-28657
- SULFONIC ACID**
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
The 1,1,1-triaryl-2,2,2-trifluoroethanes and process for their synthesis
[NASA-CASE-ARC-11097-1] c 25 N82-24312
- SULFUR COMPOUNDS**
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
- SULFUR DIOXIDES**
Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- SULFURIC ACID**
Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- SUM RULES**
Computing apparatus Patent
[NASA-CASE-XGS-04765] c 08 N71-18693
- SUN**
Sun tracking solar energy collector
[NASA-CASE-NPO-13921-1] c 44 N79-14526
- SUNGLASSES**
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-06064] c 05 N71-23096
- SUNLIGHT**
Illumination system including a virtual light source Patent
[NASA-CASE-HQN-10781] c 23 N71-30292
Illumination control apparatus for compensating solar light
[NASA-CASE-KSC-11010-1] c 74 N79-12890
Cloud cover sensor
[NASA-CASE-NPO-14936-1] c 47 N83-32232
Sun shield
[NASA-CASE-MSC-20162-1] c 37 N87-17036
- SUPERCHARGERS**
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- SUPERCONDUCTING FILMS**
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
- SUPERCONDUCTING MAGNETS**
Cryogenic apparatus for measuring the intensity of magnetic fields
[NASA-CASE-XAC-02407] c 14 N69-27423
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Magnetometer using superconducting rotating body
[NASA-CASE-NPO-13388-1] c 35 N76-16390
Stable superconducting magnet --- high current levels below critical temperature
[NASA-CASE-XMF-05373-1] c 33 N79-21264
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] c 31 N85-29082
- SUPERCONDUCTIVITY**
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
System for improving signal-to-noise ratio of a communication signal
[NASA-CASE-MSC-12259-2] c 07 N72-33146
Superconductive magnetic-field-trapping device
[NASA-CASE-XNP-01185] c 26 N73-28710
Doped Josephson tunneling junction for use in a sensitive IR detector
[NASA-CASE-NPO-13348-1] c 33 N75-31332
Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Planar thin film SQUID with integral flux concentrator
[NASA-CASE-MFS-28282-1] c 76 N88-29602
- SUPERCONDUCTORS**
Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
Twisted multifilament superconductor
[NASA-CASE-LEW-11726-1] c 26 N73-26752
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571

- Germanium coated microbridge and method
[NASA-CASE-MFS-23274-1] c 33 N78-13320
- Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
- Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454
- SUPERCOOLING**
Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- SUPERCritical FLUIDS**
Method for growth of crystals by pressure reduction of supercritical or subcritical solution
[NASA-CASE-NPO-15772-1] c 76 N85-29800
- SUPERCritical PRESSURES**
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] c 43 N84-23012
- SUPERFLUIDITY**
Helium refining by superfluidity Patent
[NASA-CASE-XNP-00733] c 06 N70-34946
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- SUPERHEATING**
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
- SUPERHIGH FREQUENCIES**
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524
- SUPERLATTICES**
Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16617-2-CU] c 35 N90-17118
- SUPERPLASTICITY**
Superplastically formed diffusion bonded metallic structure
[NASA-CASE-FRC-11026-1] c 24 N82-24296
- SUPERSONIC AIRCRAFT**
Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243
- Absorptive splitter for closely spaced supersonic engine air inlets Patent
[NASA-CASE-XLA-02865] c 28 N71-15563
- Oblique-wing supersonic aircraft
[NASA-CASE-ARC-10470-3] c 05 N76-29217
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233
- SUPERSONIC COMBUSTION**
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
- Hyperonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- SUPERSONIC DRAG**
Annular supersonic decelerator or drogue Patent
[NASA-CASE-XLE-00222] c 02 N70-37939
- SUPERSONIC FLIGHT**
Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
- SUPERSONIC FLOW**
Optical probing of supersonic flows with statistical correlation
[NASA-CASE-MFS-20642] c 14 N72-21407
- Stagnation pressure probe --- for measuring pressure of supersonic gas streams
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag
[NASA-CASE-LAR-13511-1] c 05 N88-23765
- SUPERSONIC INLETS**
Airflow control system for supersonic inlets
[NASA-CASE-LEW-11188-1] c 02 N74-20646
- Shock position sensor for supersonic inlets --- measuring pressure in the throat of a supersonic inlet
[NASA-CASE-LEW-11915-1] c 35 N76-14431
- Hyperonic airbreathing missile
[NASA-CASE-LAR-12264-1] c 15 N78-32168
- SUPERSONIC NOZZLES**
Penshape exhaust nozzle for supersonic engine Patent
[NASA-CASE-XLE-00057] c 28 N70-38711
- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
- Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392
- SUPERSONIC SPEED**
Continuously operating induction plasma accelerator Patent
[NASA-CASE-XLA-01354] c 25 N70-36946
- Static pressure probe
[NASA-CASE-LAR-11552-1] c 35 N76-14429
- SUPERSONIC TRANSPORTS**
Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958
- Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287
- Position location system and method
[NASA-CASE-GSC-10087-3] c 07 N72-12080
- Doppler compensation by shifting transmitted object frequency within limits
[NASA-CASE-GSC-10087-4] c 07 N73-20174
- Supersonic transport --- using canard surfaces
[NASA-CASE-LAR-11932-1] c 05 N78-32086
- SUPERSONIC WIND TUNNELS**
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
- SUPPORT INTERFERENCE**
Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- SUPPORT SYSTEMS**
Hydraulic support for dynamic testing Patent
[NASA-CASE-XMF-03248] c 11 N71-10604
- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
- Adjustable support
[NASA-CASE-NPO-10721] c 15 N72-27484
- Hydrostatic bearing support
[NASA-CASE-LEW-11158-1] c 37 N77-28486
- Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
- SUPPORTS**
A support technique for vertically oriented launch vehicles
[NASA-CASE-XLA-02704] c 11 N69-21540
- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Extensible cable support Patent
[NASA-CASE-XMF-07587] c 15 N71-18701
- Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812
- Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
- Angular displacement indicating gas bearing support system Patent
[NASA-CASE-XLA-09346] c 15 N71-28740
- Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
- Fine adjustment mount
[NASA-CASE-MFS-20249] c 15 N72-11386
- Expandable support means
[NASA-CASE-NPO-11059] c 15 N72-17454
- Optical system support apparatus
[NASA-CASE-XER-07896-2] c 23 N72-22673
- Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Collapsible structure for an antenna reflector
[NASA-CASE-NPO-11751] c 07 N73-24176
- Method of making porous conductive supports for electrodes --- by electroforming and stacking nickel foils
[NASA-CASE-GSC-11367-1] c 44 N74-19692
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Variable contour securing system
[NASA-CASE-MSC-16270-1] c 37 N78-27423
- Heat treat fixture and method of heat treating
[NASA-CASE-LAR-11821-1] c 26 N80-28492
- Locking mechanism for orthopedic braces
[NASA-CASE-GSC-12082-2] c 52 N81-25661
- Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
- Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112
- Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314
- Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
- Method of forming dynamic membrane on stainless steel support
[NASA-CASE-MSC-18172-3] c 31 N88-29052
- Don/doff support stand for use with rear entry space suits
[NASA-CASE-MSC-21364-1] c 54 N89-13889
- Almond test body --- for microwave anechoic chambers
[NASA-CASE-LAR-13747-1-CU] c 32 N89-28672
- Turbomachinery rotor support with damping
[NASA-CASE-MFS-28345-1] c 37 N89-28841
- Mechanical strain isolator mount
[NASA-CASE-LAR-13580-1] c 37 N90-16272
- SUPPRESSORS**
Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
- SURFACE ACOUSTIC WAVE DEVICES**
Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919
- SURFACE CRACKS**
Elastomer coated filler and composites thereof comprising at least 60% by weight of a hydrated filler and an elastomer containing an acid substituent
[NASA-CASE-NPO-14857-1] c 27 N83-19900
- SURFACE DEFECTS**
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
- Method and device for detection of surface discontinuities or defects
[NASA-CASE-MSC-14187-1] c 35 N74-32879
- SURFACE DIFFUSION**
Metallic film diffusion for boundary lubrication Patent
[NASA-CASE-XLE-01765] c 18 N71-10772
- Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887
- SURFACE FINISHING**
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
- Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
- Surface finishing
[NASA-CASE-MSC-12631-3] c 27 N81-14077
- Method of cold welding using ion beam technology
[NASA-CASE-LEW-12982-1] c 37 N81-19455
- Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
- Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] c 33 N84-16456
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- Method and apparatus for making an optical element having a dielectric film
[NASA-CASE-ARC-11611-1] c 74 N87-28416
- Ion-beam nitriding of steels
[NASA-CASE-LEW-14104-2] c 26 N88-14179
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MSC-21487-1] c 25 N90-16887
- SURFACE GEOMETRY**
Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959
- SURFACE IONIZATION**
Field ionization electrodes Patent
[NASA-CASE-ERC-10013] c 09 N71-26678
- Method and apparatus for detecting surface ions on silicon diodes and transistors
[NASA-CASE-ERC-10325] c 15 N72-25457
- SURFACE LAYERS**
Bismuth-lead coatings for gas bearings used in atmospheric environments and vacuum chambers Patent
[NASA-CASE-XGS-02011] c 15 N71-20739
- Method and apparatus for stable silicon dioxide layers on silicon grown in silicon nitride ambient
[NASA-CASE-ERC-10073-1] c 24 N74-19769

Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

SURFACE PROPERTIES

Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Apparatus for scanning the surface of a cylindrical body
[NASA-CASE-NPO-11861-1] c 36 N74-20009
Apparatus for microbiological sampling --- including automatic swabbing
[NASA-CASE-LAR-11069-1] c 35 N75-12272
Penetrometer --- for determining load bearing characteristics of inclined surfaces
[NASA-CASE-NPO-11103-1] c 35 N77-27367
Device for measuring the contour of a surface
[NASA-CASE-LAR-11869-1] c 74 N78-27904
Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371
Apparatus for electrolytically tapered or contoured cavities
[NASA-CASE-XNP-08835-1] c 37 N80-14395
Mechanical bonding of metal method
[NASA-CASE-LEW-12941-1] c 26 N83-10170
Apparatus and method for inspecting a bearing ball
[NASA-CASE-MFS-25833-1] c 35 N86-32698
Ion beam sputter etching
[NASA-CASE-LEW-13899-1] c 31 N87-21160
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150

SURFACE REACTIONS

Nondestructive spot test method for magnesium and magnesium alloys
[NASA-CASE-LAR-10953-1] c 17 N73-27446
Means for phase locking the outputs of a surface emitting laser diode array
[NASA-CASE-NPO-16542-1-CU] c 36 N87-23960
Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N88-30105
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651

SURFACE ROUGHNESS

Surface roughness detector Patent
[NASA-CASE-XLA-00203] c 14 N70-34161
Optical inspection apparatus Patent
[NASA-CASE-XMF-00462] c 14 N70-34298
Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] c 70 N84-28565

SURFACE ROUGHNESS EFFECTS

Meteorological balloon Patent
[NASA-CASE-XMF-04163] c 02 N71-23007

SURFACE TEMPERATURE

Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

SURFACE VEHICLES

Optimal control system for an electric motor driven vehicle
[NASA-CASE-NPO-11210] c 11 N72-20244
Vehicle for use in planetary exploration
[NASA-CASE-NPO-11366] c 11 N73-26238
Short range laser obstacle detector --- for surface vehicles using laser diode array
[NASA-CASE-NPO-11856-1] c 36 N74-15145
Vehicle locating system utilizing AM broadcasting station carriers
[NASA-CASE-NPO-13217-1] c 32 N75-26194
Vehicular impact absorption system
[NASA-CASE-NPO-14014-1] c 37 N79-10420
Personnel emergency carrier vehicle
[NASA-CASE-KSC-11282-1] c 85 N87-21755
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SURFACE WAVES

Antenna design for surface wave suppression Patent
[NASA-CASE-XLA-10772] c 07 N71-28980
Solar energy converter using surface plasma waves
[NASA-CASE-LEW-13827-1] c 44 N85-21768

Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282

SURFACES

Recoverable rocket vehicle Patent
[NASA-CASE-XMF-00389] c 31 N70-34176
Friction measuring apparatus Patent
[NASA-CASE-XNP-08680] c 14 N71-22995
Three-axis adjustable loading structure
[NASA-CASE-FRC-10051-1] c 35 N74-13129
Photoelectron spectrometer with means for stabilizing sample surface potential
[NASA-CASE-NPO-13772-1] c 35 N78-10429

SURFACTANTS

Surfactant-assisted liquefaction of particulate carbonaceous substances
[NASA-CASE-NPO-13904-1] c 25 N79-11152

SURGERY

Tissue macerating instrument
[NASA-CASE-LEW-12668-1] c 52 N78-14773
Intra-ocular pressure normalization technique and equipment
[NASA-CASE-LEW-12955-1] c 52 N80-14684
Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

SURGES

Transient-compensated SCR inverter
[NASA-CASE-XLA-08507] c 09 N69-39984
Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

SURGICAL INSTRUMENTS

Ophthalmic method and apparatus
[NASA-CASE-LEW-11669-1] c 05 N73-27062
Ophthalmic liquefaction pump
[NASA-CASE-LEW-12051-1] c 52 N75-33640
Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

SURVIVAL EQUIPMENT

Survival couch Patent
[NASA-CASE-XLA-00118] c 05 N70-33285
Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493
Soft frame adjustable eyeglasses Patent
[NASA-CASE-XMS-00604] c 05 N71-23096

SUSPENDING (HANGING)

Parallel motion suspension device Patent
[NASA-CASE-XNP-01567] c 15 N70-41310
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334
A torsional suspension system for testing space structures
[NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
Electrostatically suspended rotor for angular encoder
[NASA-CASE-MFS-28294-1] c 31 N90-10310

SUSPENSION SYSTEMS (VEHICLES)

Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587
Articulated suspension system
[NASA-CASE-NPO-17354-1-CU] c 37 N90-17153

SWEAT

Sweat collection capsule
[NASA-CASE-ARC-11031-1] c 52 N81-29763

SWEAT COOLING

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Transpirationally cooled heat ablation system Patent
[NASA-CASE-XMS-02677] c 31 N70-42075
Method of electroforming a rocket chamber
[NASA-CASE-LEW-11118-1] c 20 N74-32919

SWEEP CIRCUITS

Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926

SWEEP EFFECT

High speed flight vehicle control Patent
[NASA-CASE-XLA-08967] c 02 N71-27088
Acoustically swept rotor --- helicopter noise reduction
[NASA-CASE-ARC-11106-1] c 05 N80-14107

SWEEP FREQUENCY

Swept group delay measurement
[NASA-CASE-NPO-13909-1] c 33 N78-25319

SWELLING

Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572

SWEEP FORWARD WINGS

High performance forward swept wing aircraft
[NASA-CASE-ARC-11636-1] c 05 N88-28914

SWEEP WINGS

Supersonic aircraft Patent
[NASA-CASE-XLA-04451] c 02 N71-12243

SWIRLING

Slosh alleviator Patent
[NASA-CASE-XLA-05749] c 15 N71-19569
Swirl can primary combustor
[NASA-CASE-LEW-11326-1] c 23 N73-30665
Flow modifying device
[NASA-CASE-LEW-13562-2] c 07 N85-35195

SWITCHES

Switching mechanism with energy storage means Patent
[NASA-CASE-XGS-00473] c 03 N70-38713
Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434
RF controlled solid state switch
[NASA-CASE-ARC-10136-1] c 09 N72-22202
High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285
Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
Fiber optic crossbar switch for automatically patching optical signals
[NASA-CASE-KSC-11104-1] c 74 N83-29032
Triac failure detector
[NASA-CASE-MFS-25607-1] c 33 N83-34190
Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] c 33 N84-33661
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] c 33 N86-19516
Self-actuating heat switches for redundant refrigeration systems
[NASA-CASE-NPO-17085-1-CU] c 31 N89-12785
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
Solid state electrical switch employing materials with reversible phase transistors
[NASA-CASE-NPO-17621-1-CU] c 33 N90-17010

SWITCHING

Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] c 33 N84-27975

SWITCHING CIRCUITS

Solid state switch
[NASA-CASE-XNP-09228] c 09 N69-27500
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
A method for selective gold diffusion of monolithic silicon devices and/or circuits Patent application
[NASA-CASE-ERC-10072] c 09 N70-11148
Space vehicle electrical system Patent
[NASA-CASE-XMF-00517] c 03 N70-34157
High speed low level electrical stepping switch Patent
[NASA-CASE-XAC-00060] c 09 N70-39915
Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
Electronic beam switching commutator Patent
[NASA-CASE-XGS-01451] c 09 N71-10677
Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798
SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
Magnetic core current steering commutator Patent
[NASA-CASE-NPO-10201] c 08 N71-18694
A dc-coupled noninverting one-shot Patent
[NASA-CASE-XNP-09450] c 10 N71-18723
Reversible current control apparatus Patent
[NASA-CASE-XLA-09371] c 10 N71-18724
Exclusive-Or digital logic module Patent
[NASA-CASE-XLA-07732] c 08 N71-18751
Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
Sight switch using an infrared source and sensor Patent
[NASA-CASE-XMF-03934] c 09 N71-22985
Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
Drive circuit utilizing two cores Patent
[NASA-CASE-XNP-01318] c 10 N71-23033
Pulse modulator providing fast rise and fall times Patent
[NASA-CASE-XMS-04919] c 09 N71-23270
Polarity sensitive circuit Patent
[NASA-CASE-XNP-00952] c 10 N71-23271
Increasing efficiency of switching type regulator circuits Patent
[NASA-CASE-XMS-09352] c 09 N71-23316
Indexing microwave switch Patent
[NASA-CASE-XNP-06507] c 09 N71-23548
Multialarm summary alarm Patent
[NASA-CASE-XLE-03061-1] c 10 N71-24798

Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799

Inverter with means for base current shaping for sweeping charge carriers from base region Patent
[NASA-CASE-XGS-06226] c 10 N71-25950

Current steering switch Patent
[NASA-CASE-XNP-08567] c 09 N71-26000

Control apparatus for applying pulses of selectively predetermined duration to a sequence of loads Patent
[NASA-CASE-XGS-04224] c 10 N71-26418

Turn on transient limiter Patent
[NASA-CASE-GSC-10413] c 10 N71-26531

Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774

Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126

Compensating bandwidth switching transients in an amplifier circuit Patent
[NASA-CASE-XNP-01107] c 10 N71-28859

Monostable multivibrator with complementary NOR gates Patent
[NASA-CASE-MSC-13492-1] c 10 N71-28860

Digital memory sense amplifying means Patent
[NASA-CASE-XNP-01012] c 08 N71-28925

Current regulating voltage divider
[NASA-CASE-MFS-20935] c 09 N71-34212

Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157

Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031

Flow rate switch
[NASA-CASE-NPO-10722] c 09 N72-20199

Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243

Data multiplexer using tree switching configuration
[NASA-CASE-NPO-11333] c 08 N72-22162

Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

Solid state remote circuit selector switch
[NASA-CASE-LEW-10387] c 09 N72-22201

Pressure operated electrical switch responsive to a pressure decrease after a pressure increase
[NASA-CASE-LAR-10137-1] c 09 N72-22204

Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236

CRT blanking and brightness control circuit
[NASA-CASE-KSC-10647-1] c 10 N72-31273

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Radiation sensitive solid state switch
[NASA-CASE-NPO-10817-1] c 08 N73-30135

Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143

High isolation RF signal selection switches
[NASA-CASE-NPO-13081-1] c 33 N74-22814

Isolated output system for a class D switching-mode amplifier
[NASA-CASE-MFS-21616-1] c 33 N75-30429

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Multi-computer multiple data path hardware exchange system
[NASA-CASE-NPO-13422-1] c 60 N76-14818

Sustained arc ignition system
[NASA-CASE-LEW-12444-1] c 33 N77-28385

Window comparator
[NASA-CASE-FRC-10090-1] c 33 N78-18308

Module failure isolation circuit for paralleled inverters --- preventing system failure during power conditioning for spacecraft applications
[NASA-CASE-NPO-14000-1] c 33 N79-24254

System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

Self-reconfiguring solar cell system
[NASA-CASE-LEW-12586-1] c 44 N80-14472

Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404

Microwave switching power divider --- antenna feeds
[NASA-CASE-GSC-12420-1] c 33 N82-16340

Control means for a solid state crossbar switch
[NASA-CASE-NPO-15066-1] c 33 N82-29538

Active lamp pulse driver circuit --- optical pumping of laser media
[NASA-CASE-GSC-12566-1] c 33 N83-34189

Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455

Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

Hybrid power semiconductor
[NASA-CASE-LEW-13922-1] c 33 N86-20672

Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

SWITCHING THEORY

Multiple circuit switch apparatus with improved pivot actuator structure Patent
[NASA-CASE-XAC-03777] c 10 N71-15909

SWIVELS

Swivel support for gas bearings Patent
[NASA-CASE-XMF-07808] c 15 N71-23812

SYNAPSES

Analog hardware for delta-backpropagation neural networks
[NASA-CASE-NPO-17564-1-CU] c 32 N90-16974

SYNCHRONISM

Time division multiplex system
[NASA-CASE-XGS-05918] c 07 N69-39974

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Method of resolving clock synchronization error and means therefor Patent
[NASA-CASE-XNP-08875] c 10 N71-23099

Passive synchronized spike generator with high input impedance and low output impedance and capacitor power supply Patent
[NASA-CASE-XGS-03632] c 09 N71-23311

Time synchronization system utilizing moon reflected coded signals Patent
[NASA-CASE-NPO-10143] c 10 N71-26326

Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577

Synchronized voltage contrast display analysis system
[NASA-CASE-NPO-14567-1] c 33 N83-18996

SYNCHRONIZED OSCILLATORS

Phase demodulation system with two phase locked loops Patent
[NASA-CASE-XNP-00777] c 10 N71-19469

Phase locked phase modulator including a voltage controlled oscillator Patent
[NASA-CASE-XNP-05382] c 10 N71-23544

Automatic frequency control loop including synchronous switching circuits
[NASA-CASE-KSC-10393] c 09 N72-21247

SYNCHRONIZERS

Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent
[NASA-CASE-GSC-10373-1] c 07 N71-19773

Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448

Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12462-1] c 32 N74-20809

Pulse code modulated signal synchronizer
[NASA-CASE-MSC-12494-1] c 32 N74-20810

System for generating timing and control signals
[NASA-CASE-NPO-13125-1] c 33 N75-19519

Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245

Memory-based frame synchronizer --- for digital communication systems
[NASA-CASE-GSC-12430-1] c 60 N82-16747

SYNCHRONOUS MOTORS

Synchronous dc direct drive system Patent
[NASA-CASE-GSC-10065-1] c 10 N71-27136

Motor run-up system --- power lines
[NASA-CASE-NPO-13374-1] c 33 N75-19524

SYNCHRONOUS SATELLITES

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Serrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088

Traffic control system and method Patent
[NASA-CASE-GSC-10087-1] c 02 N71-19287

Tracking antenna system Patent
[NASA-CASE-GSC-10553-1] c 07 N71-19854

Satellite interlace synchronization system
[NASA-CASE-GSC-10390-1] c 07 N72-11149

Synchronous orbit battery cycler
[NASA-CASE-GSC-11211-1] c 03 N72-25020

Systems and methods for determining radio frequency interference
[NASA-CASE-GSC-12150-1] c 32 N79-11265

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

SYNTHESIS

Synthesis of polymeric schiff bases by schiff-base exchange reactions Patent
[NASA-CASE-XMF-08651] c 06 N71-11236

Preparation of ordered poly /arylenesiloxane/ polymers
[NASA-CASE-XMF-10753] c 06 N71-11237

Imidazopyrrolone/imide copolymers Patent
[NASA-CASE-XLA-08802] c 06 N71-11238

Preparation of polyimides from mixtures of monomeric diamines and esters of polycarboxylic acids
[NASA-CASE-LEW-11325-1] c 06 N73-27980

SYNTHESIS (CHEMISTRY)

Prepolymer dianhydrides
[NASA-CASE-NPO-13899-1] c 27 N80-32515

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

Bifunctional monomers having terminal oxime and cyano or amidine groups
[NASA-CASE-ARC-11253-3] c 27 N81-24256

Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174

Electrically conductive palladium containing polyimide films
[NASA-CASE-LAR-12705-1] c 25 N82-26396

Polyvinyl alcohol cross-linked with two aldehydes
[NASA-CASE-LEW-13504-1] c 25 N83-13188

Synthesis of dawsoneites --- for use in fire extinguishing operations
[NASA-CASE-ARC-11326-1] c 25 N83-33977

Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] c 27 N84-22749

Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973

Synthesis of 2,4,8,10-tetroxaspiro5,5undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187

Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280

Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Perfluoro (Imidoylamidine) diamidines
[NASA-CASE-ARC-11402-3] c 23 N86-21582

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675

Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450

Polymer of phosphorylmethyl-2,4- and -2,6-diamino benzene and polyfunctional monomer
[NASA-CASE-ARC-11506-2] c 23 N86-32525

Polyarylene ethers with improved properties
[NASA-CASE-ARC-13555-1] c 23 N86-32526

The 5-(4-Ethynylphenoxy) isophthalic chloride
[NASA-CASE-LAR-13316-2] c 27 N87-14515

Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof
[NASA-CASE-LAR-13318-1] c 27 N87-14516

Ethynyl terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-2] c 27 N87-16907

Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

Polyenamines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-1-CU] c 27 N87-22847

Preparation of B-trichloroborazine
[NASA-CASE-ARC-11643-1-SB] c 23 N87-23698

Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564

Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575

Aminophenoxy cyclotriphosphazene cured epoxy resins and the composites, laminates, adhesives and structures thereof
[NASA-CASE-ARC-11548-1] c 27 N87-25469

Process for developing crystallinity in linear aromatic polyimides
[NASA-CASE-LAR-13732-1] c 27 N87-25474

Aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-3] c 23 N88-24692

Substituted 1,1,1-Triaryl-2,2,2-Trifluoroethanes and processes for their synthesis
[NASA-CASE-LEW-14345-1] c 23 N88-26404

Boron-containing organosilane polymers and ceramic materials thereof
[NASA-CASE-ARC-11649-1-SB] c 27 N88-29040

- Novel ladder polymers for use as high temperature stable resins or coatings
[NASA-CASE-LEW-14203-1] c 27 N88-29984
- Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814
- Polycyanines from aromatic diacetylenic diketones and diamines
[NASA-CASE-LAR-13444-2-CU] c 23 N89-12667
- Low dielectric fluorinated poly(phenylene ether ketone) film and coating
[NASA-CASE-LAR-13992-1-CU] c 23 N89-13496
- Polyphenylquinoxalines containing alkylendioxy groups
[NASA-CASE-LAR-13601-1-CU] c 27 N89-14337
- Novel polyimide compositions based on 4,4'-isophthaloyldipthalic anhydride (IDPA)
[NASA-CASE-LAR-14194-1] c 24 N90-15148
- Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259
- Polyimides with carbonyl and ether connecting groups between the aromatic rings
[NASA-CASE-LAR-14001-1] c 27 N90-15260
- Microporous structure with layered interstitial surface treatment, and method and apparatus for preparation thereof
[NASA-CASE-MS-C-21487-1] c 25 N90-16887
- Copolyimide with a combination of flexibilizing groups
[NASA-CASE-LAR-13821-1] c 27 N90-16950
- New Condensation polyimides containing 1,1,1-triaryl-2,2,2-trifluoroethane structures
[NASA-CASE-LEW-14346-1] c 23 N90-19300

SYNTHESIZERS

- Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
- SYNTHETIC APERTURE RADAR**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Azimuth correlator for real-time synthetic aperture radar image processing
[NASA-CASE-NPO-14019-1] c 32 N79-14268
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-1] c 32 N79-19195
- Real-time multiple-look synthetic aperture radar processor for spacecraft applications
[NASA-CASE-NPO-14054-1] c 32 N82-12297
- Servomechanism for Doppler shift compensation in optical correlator for synthetic aperture radar
[NASA-CASE-NPO-14998-1] c 32 N83-18975
- Clutter free synthetic aperture radar correlator
[NASA-CASE-NPO-14035-1] c 32 N83-19968
- Multibeam single frequency synthetic aperture radar processor for imaging separate range swaths
[NASA-CASE-NPO-14525-2] c 32 N83-31918
- Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951
- Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] c 32 N84-34651
- Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- Method and apparatus for contour mapping using synthetic aperture radar
[NASA-CASE-NPO-15939-1] c 43 N86-19711
- Data volume reduction for imaging radar polarimetry
[NASA-CASE-NPO-17184-1-CU] c 32 N88-26541

SYNTHETIC FIBERS

- Fluid containers and resealable septum therefor Patent
[NASA-CASE-NPO-10123] c 15 N71-24835
- Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MS-C-12109] c 18 N71-26285
- Fluid impervious barrier including liquid metal alloy and method of making same Patent
[NASA-CASE-XNP-08881] c 17 N71-28747
- Polymeric electrolytic hygrometer
[NASA-CASE-NPO-13948-1] c 35 N78-25391
- Process for spinning flame retardant elastomeric compositions --- fabricating synthetic fibers for high oxygen environments
[NASA-CASE-MS-C-14331-3] c 27 N78-32262
- Insoluble polyelectrolyte and ion-exchange hollow fiber impregnated therewith
[NASA-CASE-NPO-13530-1] c 25 N81-17187

SYNTHETIC FUELS

- Molten salt pyrolysis of latex --- synthetic hydrocarbon fuel production using the Guayule shrub
[NASA-CASE-NPO-14315-1] c 27 N81-17261
- Solar heated fluidized bed gasification system
[NASA-CASE-NPO-15071-1] c 44 N82-16475

SYNTHETIC RESINS

- Coating process
[NASA-CASE-XNP-06508] c 18 N69-39695
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Method for forming pyrrone molding powders and products of said method
[NASA-CASE-LAR-10423-1] c 23 N82-29358
- Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

SYNTHETIC RUBBERS

- Process for the preparation of polycarbonylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271

SYRINGES

- Micro-fluid exchange coupling apparatus
[NASA-CASE-ARC-11114-1] c 51 N81-14605
- Automated syringe sampler --- remote sampling of air and water
[NASA-CASE-LAR-12308-1] c 35 N81-29407

SYSTEM EFFECTIVENESS

- System for the measurement of ultra-low stray light levels --- determining the adequacy of large space telescope systems
[NASA-CASE-MFS-23513-1] c 74 N79-11865

SYSTEM FAILURES

- Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
- Fault tolerant clock apparatus utilizing a controlled minority of clock elements
[NASA-CASE-MS-C-12531-1] c 35 N75-30504
- Apparatus for sensor failure detection and correction in a gas turbine engine control system
[NASA-CASE-LEW-12907-2] c 07 N81-19115

SYSTEMS ANALYSIS

- Analog-to-digital converter analyzing system
[NASA-CASE-NPO-10560] c 08 N72-22166

SYSTEMS ENGINEERING

- Magnetohydrodynamic induction machine
[NASA-CASE-XNP-07481] c 25 N69-21929
- Gravity stabilized flying vehicle Patent
[NASA-CASE-MS-C-12111-1] c 02 N71-11039
- Solar battery with interconnecting means for plural cells Patent
[NASA-CASE-XNP-06506] c 03 N71-11050
- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Multi-feed cone Cassegrain antenna Patent
[NASA-CASE-NPO-10539] c 07 N71-11285
- Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894
- Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
- Wide range data compression system Patent
[NASA-CASE-XGS-02612] c 08 N71-19435
- Space suit heat exchanger Patent
[NASA-CASE-XMS-09571] c 05 N71-19439
- Biomedical radiation detecting probe Patent
[NASA-CASE-XMS-01177] c 05 N71-19440
- High speed binary to decimal conversion system Patent
[NASA-CASE-XGS-01230] c 08 N71-19544
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Method and apparatus for making a heat insulating and ablative structure Patent
[NASA-CASE-XMS-02009] c 33 N71-20834
- Polarization diversity monopulse tracking receiver Patent
[NASA-CASE-XGS-03501] c 09 N71-20864
- Inflatable support structure Patent
[NASA-CASE-XLA-01731] c 32 N71-21045
- Fast opening diaphragm Patent
[NASA-CASE-XLA-03660] c 15 N71-21060
- Portable superclean air column device Patent
[NASA-CASE-XMF-03212] c 15 N71-22721
- Apparatus for machining geometric cones Patent
[NASA-CASE-XMS-04292] c 15 N71-22722
- Spin forming tubular elbows Patent
[NASA-CASE-XMF-01083] c 15 N71-22723
- Spacecraft airlock Patent
[NASA-CASE-XLA-02050] c 31 N71-22968
- Station keeping of a gravity gradient stabilized satellite Patent
[NASA-CASE-XLA-03132] c 31 N71-22969
- Filler valve Patent
[NASA-CASE-XNP-01747] c 15 N71-23024
- Refrigeration apparatus Patent
[NASA-CASE-XNP-08877] c 15 N71-23025
- Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Variable duration pulse integrator Patent
[NASA-CASE-XLA-01219] c 10 N71-23084
- Sealed electrochemical cell provided with a flexible casing Patent
[NASA-CASE-XGS-01513] c 03 N71-23336
- Extended area semiconductor radiation detectors and a novel readout arrangement Patent
[NASA-CASE-XGS-03230] c 14 N71-23401
- Floating two force component measuring device Patent
[NASA-CASE-XAC-04885] c 14 N71-23790
- Transducer circuit and catheter transducer Patent
[NASA-CASE-ARC-10132-1] c 09 N71-24597
- Method of attaching a cover glass to a silicon solar cell Patent
[NASA-CASE-XLE-08569-2] c 03 N71-24681
- Attitude control system for sounding rockets Patent
[NASA-CASE-XGS-01654] c 31 N71-24750
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Tuning arrangement for an electron discharge device or the like Patent
[NASA-CASE-XNP-09771] c 09 N71-24841
- Broadband modified turnstile antenna Patent
[NASA-CASE-MS-C-12209] c 09 N71-24842
- Apparatus for determining the deflection of an electron beam impinging on a target Patent
[NASA-CASE-XMF-06617] c 09 N71-24843
- BCD to decimal decoder Patent
[NASA-CASE-XKS-06167] c 08 N71-24890
- Noninterruptable digital counting system Patent
[NASA-CASE-XNP-09759] c 08 N71-24891
- Duct coupling for single-handed operation Patent
[NASA-CASE-MFS-20395] c 15 N71-24903
- Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
- Quick release hook tape Patent
[NASA-CASE-XMS-10660-1] c 15 N71-25975
- Internal work light Patent
[NASA-CASE-XKS-05932] c 09 N71-26787
- Apparatus for inspecting microfilm Patent
[NASA-CASE-MFS-20240] c 14 N71-26788
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Optimum performance spacecraft solar cell system
[NASA-CASE-GSC-10669-1] c 03 N72-20031
- Electric storage battery
[NASA-CASE-NPO-11021] c 03 N72-20032
- Spacecraft attitude control method and apparatus
[NASA-CASE-HQN-10439] c 21 N72-21624
- Light sensor
[NASA-CASE-NPO-11311] c 14 N72-25414
- Fight control system
[NASA-CASE-MS-C-13397-1] c 21 N72-25595
- Program for computer aided reliability estimation
[NASA-CASE-NPO-13086-1] c 15 N73-12495
- Measurement system
[NASA-CASE-MFS-20658-1] c 14 N73-30386
- Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
[NASA-CASE-ARC-10444-1] c 16 N73-33397
- System for calibrating pressure transducer
[NASA-CASE-LAR-10910-1] c 35 N74-13132
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- Holographic system for nondestructive testing
[NASA-CASE-MFS-21704-1] c 35 N75-25124
- Compact pulsed laser having improved heat conductance
[NASA-CASE-NPO-13147-1] c 36 N77-25502
- Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
- Non-tracking solar energy collector system
[NASA-CASE-NPO-13813-1] c 44 N78-31526
- Horizontally mounted solar collector
[NASA-CASE-MFS-23349-1] c 44 N79-23481
- Contour measurement system
[NASA-CASE-MFS-23726-1] c 43 N79-26439
- Redundant motor drive system
[NASA-CASE-MFS-23777-1] c 37 N80-32716
- System for sterilizing objects --- cleaning space vehicle systems
[NASA-CASE-KSC-11085-1] c 54 N81-24724
- A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] c 25 N84-32447
- Multiplex electric discharge gas laser system
[NASA-CASE-NPO-16433-1] c 36 N87-23961

SYSTOLIC ARRAYS

- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713

T

TABS (CONTROL SURFACES)

- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947

TACHOMETERS

- Digital cardiometer system Patent
[NASA-CASE-XMS-02399] c 05 N71-22896
Brushless direct current tachometer Patent
[NASA-CASE-MFS-20385] c 09 N71-24904
Ratemeter
[NASA-CASE-MFS-20418] c 14 N73-24473
Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] c 35 N84-28017

TAIL ASSEMBLIES

- Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] c 15 N84-16231

TAKEOFF

- Airplane take-off performance indicator Patent
[NASA-CASE-XLA-00100] c 14 N70-36807
Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

TANGENTS

- Derivation of a tangent function using an integrated circuit four-quadrant multiplier
[NASA-CASE-MSC-13907-1] c 10 N73-26230

TANK GEOMETRY

- Tank construction for space vehicles Patent
[NASA-CASE-XMF-01899] c 31 N70-41948

TANKERS

- Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] c 18 N84-22610

TANKS (COMBAT VEHICLES)

- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

TANKS (CONTAINERS)

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348
Method for leakage testing of tanks Patent
[NASA-CASE-XMF-02392] c 32 N71-24285
Floating baffle to improve efficiency of liquid transfer from tanks
[NASA-CASE-KSC-10639] c 15 N73-26472
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Tank gauging apparatus and method
[NASA-CASE-MSC-21059-1] c 35 N89-12843

TANTALUM

- Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
Arc electrode of graphite with ball tip Patent
[NASA-CASE-XLE-04788] c 09 N71-22987
Trialkyl-dihalotantalum and niobium compounds Patent
[NASA-CASE-XNP-04023] c 06 N71-28808
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454

TANTALUM ALLOYS

- Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
Tantalum modified ferritic iron base alloys
[NASA-CASE-LEW-12095-1] c 26 N78-18182

TANTALUM CARBIDES

- Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206

TANTALUM OXIDES

- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761

TAPE RECORDERS

- Plural recorder system
[NASA-CASE-XMS-06949] c 09 N69-21467
Endless tape transport mechanism Patent
[NASA-CASE-XGS-01223] c 07 N71-10609
Low friction magnetic recording tape Patent
[NASA-CASE-XGS-00373] c 23 N71-15978
Tape guidance system and apparatus for the provision thereof Patent
[NASA-CASE-XNP-09453] c 08 N71-19420

- Synchronous servo loop control system Patent
[NASA-CASE-XNP-03744] c 10 N71-20448
Incremental tape recorder and data rate converter Patent

- [NASA-CASE-XNP-02778] c 08 N71-22710
Digital telemetry system Patent
[NASA-CASE-XGS-01812] c 07 N71-23001
Tape recorder Patent
[NASA-CASE-XGS-08259] c 14 N71-23698
A dc servosystem including an ac motor Patent
[NASA-CASE-NPO-10700] c 07 N71-33613
Recorder using selective noise filter
[NASA-CASE-ERC-10112] c 07 N72-21119
Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426

TAPERED COLUMNS

- Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659

TAPERING

- Tapered, tubular polyester fabric
[NASA-CASE-MSC-21082-1] c 27 N87-29672

TAPES

- High density tape casting system
[NASA-CASE-NPO-16901-1-CU] c 31 N90-19425

TARGET ACQUISITION

- Acquisition and tracking system for optical radar
[NASA-CASE-MFS-20125] c 16 N72-13437
Target acquisition antenna
[NASA-CASE-GSC-10064-1] c 10 N72-22235
Intruder detection system
[NASA-CASE-ARC-10097-2] c 07 N73-25160

TARGET RECOGNITION

- Electronic background suppression method and apparatus for a field scanning sensor
[NASA-CASE-XGS-05211] c 07 N69-39980
Real-time optical multiple object recognition and tracking system and method
[NASA-CASE-NPO-17139-1-CU] c 74 N88-25301

TARGET SIMULATORS

- Simulator method and apparatus for practicing the mating of an observer-controlled object with a target
[NASA-CASE-MFS-23052-2] c 74 N79-13855
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] c 32 N84-27951

TARGETS

- Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Method and apparatus for producing gas-filled hollow spheres --- target pellets for inertial confinement fusion
[NASA-CASE-NPO-14596-3] c 31 N83-31896
Optical distance measuring instrument
[NASA-CASE-GSC-12761-1] c 74 N86-32266

TEETH

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

TEFLON (TRADEMARK)

- Bonding of reinforced Teflon to metals
[NASA-CASE-MFS-20482] c 15 N72-22492
Method of producing a storage bulb for an atomic hydrogen maser
[NASA-CASE-NPO-13050-1] c 36 N75-15029
Lead-oxygen dc power supply system having a closed loop oxygen and water system
[NASA-CASE-MFS-23059-1] c 44 N76-27664

TELECOMMUNICATION

- Adaptive compression of communication signals Patent
[NASA-CASE-XLA-03076] c 07 N71-11266
Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281
Signal-to-noise ratio estimating by taking ratio of mean and standard deviation of integrated signal samples Patent
[NASA-CASE-XNP-05254] c 07 N71-20791
Digital synchronizer Patent
[NASA-CASE-NPO-10851] c 07 N71-24613
Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
Pseudonoise (PN) synchronization of data system with derivation of clock frequency from received signal for clocking receiver PN generator
[NASA-CASE-XNP-03623] c 09 N73-28084
Coherent receiver employing nonlinear coherence detection for carrier tracking
[NASA-CASE-NPO-11921-1] c 32 N74-30523
Pseudo-noise test set for communication system evaluation --- test signals
[NASA-CASE-MFS-22671-1] c 35 N75-21582

- Modulator for tone and binary signals --- phase of modulation of tone and binary signals on carrier waves in communication systems
[NASA-CASE-GSC-11743-1] c 32 N75-24981

- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
Random digital encryption secure communication system
[NASA-CASE-MSC-16462-1] c 32 N82-31583

TELEMETRY

- Pressure variable capacitor
[NASA-CASE-XNP-09752] c 14 N69-21541
Telemetry word forming unit
[NASA-CASE-XNP-09225] c 09 N69-24333
Position location and data collection system and method Patent
[NASA-CASE-GSC-10083-1] c 30 N71-16090
Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
Digitally controlled frequency synthesizer Patent
[NASA-CASE-XGS-02317] c 09 N71-23525
Programmable telemetry system Patent
[NASA-CASE-GSC-10131-1] c 07 N71-24624
Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
Rapid sync acquisition system Patent
[NASA-CASE-NPO-10214] c 10 N71-26577
Telemetry actuated switch
[NASA-CASE-ARC-10105] c 09 N72-17153
Flexible computer accessed telemetry
[NASA-CASE-NPO-11358] c 07 N72-25172
Digital control and information system
[NASA-CASE-NPO-11016] c 08 N72-31226
Multichannel telemetry system
[NASA-CASE-NPO-11572] c 07 N73-16121
Receiver with an improved phase lock loop in a multichannel telemetry system with suppressed carrier
[NASA-CASE-NPO-11593-1] c 07 N73-28012
Telemetry synchronizer
[NASA-CASE-GSC-11868-1] c 17 N76-22245
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] c 60 N84-28491
Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863
Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348
Adaptive data acquisition multiplexing system and method
[NASA-CASE-MSC-21170-1] c 17 N88-24662
A VLSI single-chip (225,223) Reed-Solomon encoder with interleaver
[NASA-CASE-NPO-17280-1-CU] c 17 N88-27220

TELEOPERATORS

- Cooperative multiaxis sensor for teleoperation of article manipulating apparatus
[NASA-CASE-NPO-13386-1] c 54 N75-27758
A universal computer control system for motors
[NASA-CASE-NPO-17134-1-CU] c 33 N88-24864

TELEPHONES

- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310

TELEPHONY

- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TELESCOPES

- Pneumatic mirror support system
[NASA-CASE-XLA-03271] c 11 N69-24321
Solar optical telescope dome control system Patent
[NASA-CASE-MSC-10966] c 14 N71-19568
Optical tracking mount Patent
[NASA-CASE-MFS-14017] c 14 N71-26627
Method and apparatus for aligning a laser beam projector Patent
[NASA-CASE-NPO-11087] c 23 N71-29125
Rotable accurate reflector system for telescopes Patent
[NASA-CASE-NPO-10468] c 23 N71-33229
Star image motion compensator
[NASA-CASE-LAR-10523-1] c 14 N72-22444
Light direction sensor
[NASA-CASE-NPO-11201] c 14 N72-27409
Boreoscope with variable angle scope
[NASA-CASE-MFS-15162] c 14 N72-32452
Ritchey-Chretien Telescope
[NASA-CASE-GSC-11487-1] c 14 N73-30393
Servo-controlled intravital microscope system
[NASA-CASE-NPO-13214-1] c 35 N75-25123
Compensation for primary reflector wavefront error
[NASA-CASE-NPO-16869-1CU] c 74 N86-33138

TELETYPEWRITER SYSTEMS

- Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

TELEVISION CAMERAS

- Electrically-operated rotary shutter Patent
[NASA-CASE-XNP-00637] c 14 N70-40273
- Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807
- Solid state television camera system Patent
[NASA-CASE-XMF-06092] c 07 N71-24612
- Color television system
[NASA-CASE-MSC-12146-1] c 07 N72-17109
- TV fatigue crack monitoring system
[NASA-CASE-LAR-11490-1] c 39 N78-16387
- Optical conversion method --- for spacecraft television
[NASA-CASE-MSC-12618-1] c 74 N78-17865
- Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
- Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427
- Wind dynamic range video camera
[NASA-CASE-MFS-25750-1] c 32 N86-20647
- Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850

TELEVISION EQUIPMENT

- Television signal scan rate conversion system Patent
[NASA-CASE-XMS-07168] c 07 N71-11300
- Automatic closed circuit television arc guidance control Patent
[NASA-CASE-MFS-13046] c 07 N71-19433
- Color television systems using a single gun color cathode ray tube Patent
[NASA-CASE-ERC-10098] c 09 N71-28618
- Television multiplexing system
[NASA-CASE-KSC-10654-1] c 07 N73-30115
- Rotating raster generator
[NASA-CASE-FRC-10071-1] c 32 N74-20813
- Auditory display for the blind
[NASA-CASE-HQN-10832-1] c 71 N74-21014
- Spacecraft docking and alignment system --- using television camera system
[NASA-CASE-MSC-12559-1] c 18 N76-14186
- System for producing chroma signals
[NASA-CASE-MSC-14683-1] c 74 N77-18893

TELEVISION RECEIVERS

- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579

TELEVISION RECEPTION

- Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

TELEVISION SYSTEMS

- Method and means for an improved electron beam scanning system Patent
[NASA-CASE-ERC-10552] c 09 N71-12539
- Burst synchronization detection system Patent
[NASA-CASE-XMS-05605-1] c 10 N71-19468
- Narrow bandwidth video Patent
[NASA-CASE-XMS-06740-1] c 07 N71-26579
- Stereoscopic television system and apparatus
[NASA-CASE-ARC-10160-1] c 23 N72-27728
- Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

TELEVISION TRANSMISSION

- Television simulation for aircraft and space flight Patent
[NASA-CASE-XFR-03107] c 09 N71-19449
- Automatic frequency control for FM transmitter
[NASA-CASE-MFS-21540-1] c 32 N74-19790
- Television noise reduction device
[NASA-CASE-MSC-12607-1] c 32 N75-21485

TELLURIUM

- Targets for producing high purity I-123
[NASA-CASE-LEW-10518-3] c 25 N78-27226

TEMPERATURE

- Fluorinated esters of polycarboxylic acids
[NASA-CASE-MFS-21040-1] c 06 N73-30098

TEMPERATURE COMPENSATION

- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440
- Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00458] c 09 N70-38604
- Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554
- Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
- Variable frequency oscillator with temperature compensation Patent
[NASA-CASE-XNP-03916] c 09 N71-28810
- Omnidirectional acceleration device Patent
[NASA-CASE-HQN-10780] c 14 N71-30265
- Thermal compensating structural member
[NASA-CASE-MFS-20433] c 15 N72-28496
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214

- Opto-mechanical subsystem with temperature compensation through isothermal design
[NASA-CASE-GSC-12059-1] c 35 N77-27366
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294

TEMPERATURE CONTROL

- Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Thermal control of space vehicles Patent
[NASA-CASE-XLA-01291] c 33 N70-36617
- Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
- Sandwich panel construction Patent
[NASA-CASE-XLA-00349] c 33 N70-37979
- Device for suppressing sound and heat produced by high-velocity exhaust jets Patent
[NASA-CASE-XMF-01813] c 28 N70-41582
- Solar cell including second surface mirrors Patent
[NASA-CASE-NPO-10109] c 03 N71-11049
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Intermittent type silica gel adsorption refrigerator Patent
[NASA-CASE-XNP-00920] c 15 N71-15906
- Method and apparatus for controllably heating fluid Patent
[NASA-CASE-XMF-04237] c 33 N71-16278
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Transmission line thermal short Patent
[NASA-CASE-XNP-09775] c 09 N71-20445
- Thermal control wall panel Patent
[NASA-CASE-XLA-01243] c 33 N71-22792
- Thermal control panel Patent
[NASA-CASE-XLA-07728] c 33 N71-22890
- Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-05524] c 33 N71-24876
- Temperature regulation circuit Patent
[NASA-CASE-XNP-02792] c 14 N71-28958
- Automatic control of liquid cooling garment by cutaneous and external auditory meatus temperatures
[NASA-CASE-MSC-13917-1] c 05 N72-15098
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025
- Atomic hydrogen maser with bulb temperature control to remove wall shift in maser output frequency
[NASA-CASE-HQN-10654-1] c 16 N73-13489
- Pump for delivering heated fluids
[NASA-CASE-NPO-11417] c 15 N73-24513
- Temperature controller for a fluid cooled garment
[NASA-CASE-ARC-10599-1] c 05 N73-26071
- Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
- Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
- Apparatus for controlling the temperature of balloon-borne equipment
[NASA-CASE-GSC-11620-1] c 34 N74-23039
- Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
- Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- Multi-chamber controllable heat pipe
[NASA-CASE-ARC-10199] c 34 N78-17337
- Thermal compensator for closed-cycle helium refrigerator --- assuring constant temperature for an infrared laser diode
[NASA-CASE-GSC-12168-1] c 31 N79-17029
- Low heat leak connector for cryogenic system
[NASA-CASE-XLE-02367-1] c 31 N79-21225
- Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
- Automatic thermal switch
[NASA-CASE-GSC-12415-1] c 33 N82-24419
- Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
- Magnetic heat pumping
[NASA-CASE-LEW-12508-3] c 34 N83-29625
- Heating and cooling system --- for fatigue test specimens
[NASA-CASE-LAR-12393-1] c 34 N83-34221
- Heat pipe thermal switch
[NASA-CASE-GSC-12812-1] c 34 N83-35307
- Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] c 76 N84-12968

- Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- High temperature acoustic levitator
[NASA-CASE-NPO-16022-1] c 71 N85-22105
- Method and apparatus for growing crystals
[NASA-CASE-MFS-28137-1] c 76 N88-24544
- Capillary heat transport and fluid management device
[NASA-CASE-MFS-28217-1] c 34 N89-14392
- Method and apparatus for maintaining thermal control in plasma conditions
[NASA-CASE-MFS-28368-1] c 75 N90-10717

TEMPERATURE DISTRIBUTION

- Heat shield oven
[NASA-CASE-XMS-04318] c 15 N69-27871
- Apparatus for supplying conditioned air at a substantially constant temperature and humidity
[NASA-CASE-GSC-12191-1] c 31 N80-32583
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943

TEMPERATURE EFFECTS

- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Differential pressure cell Patent
[NASA-CASE-XAC-00042] c 14 N70-34816
- Fluid flow control valve Patent
[NASA-CASE-XLE-00703] c 15 N71-15967
- Temperature sensitive flow regulator Patent
[NASA-CASE-MFS-14259] c 15 N71-19213
- Thermally cycled magnetometer Patent
[NASA-CASE-XAC-03740] c 14 N71-26135
- Radiometric temperature reference Patent
[NASA-CASE-MSC-13276-1] c 14 N71-27058
- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- High performance mixed bisimide resins and composites based thereon
[NASA-CASE-ARC-11538-1SB] c 24 N86-21590
- Poly(carbonate-mide) polymer
[NASA-CASE-LAR-13292-1] c 27 N86-24841
- Process for curing bismaleimide resins
[NASA-CASE-ARC-11429-4CU] c 27 N87-15304
- Method for forming hermetic seals
[NASA-CASE-NPO-16423-1-CU] c 37 N87-21334
- Predictive aging of polymers
[NASA-CASE-NPO-17524-1-CU] c 27 N90-10261

TEMPERATURE GRADIENTS

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
- Temperature compensated light source using a light emitting diode
[NASA-CASE-ARC-10467-1] c 09 N73-14214
- Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] c 35 N86-20750

TEMPERATURE MEASUREMENT

- Motion picture camera for optical pyrometry Patent
[NASA-CASE-XLA-00062] c 14 N70-33254
- Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
- Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
- Method of fabricating an article with cavities --- with thin bottom walls
[NASA-CASE-LAR-10318-1] c 31 N74-18089
- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
- Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
- Miniature ingestible telemeter devices to measure deep-body temperature
[NASA-CASE-ARC-10583-1] c 52 N76-29894

- Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
- Multi-channel temperature measurement amplification system --- solar heating systems
[NASA-CASE-MFS-23775-1] c 44 N82-16474
- Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
- Method of and apparatus for measuring temperature and pressure --- atmospheric sounding
[NASA-CASE-GSC-12558-1] c 36 N85-21639
- Method of measuring sea surface water temperature with a satellite including wideband passive synthetic-aperture multichannel receiver
[NASA-CASE-NPO-15651-1] c 43 N85-21723
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment
[NASA-CASE-LAR-13740-1] c 35 N88-30105
- Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17824-1-CU] c 36 N90-17132
- TEMPERATURE MEASURING INSTRUMENTS**
- Excessive temperature warning system Patent
[NASA-CASE-XLA-01926] c 14 N71-15620
- Condition and condition duration indicator Patent
[NASA-CASE-XMF-01097] c 10 N71-16058
- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Method and means for providing an absolute power measurement capability Patent
[NASA-CASE-ERC-11020] c 14 N71-26774
- High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level
[NASA-CASE-ARC-10178-1] c 09 N72-17152
- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
- Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- TEMPERATURE PROBES**
- Temperature-compensating means for cavity resonator of amplifier Patent
[NASA-CASE-XNP-00449] c 14 N70-35220
- Sensing probe
[NASA-CASE-LEW-10281-1] c 14 N72-17327
- Temperature averaging thermal probe
[NASA-CASE-GSC-12795-1] c 35 N86-19580
- TEMPERATURE PROFILES**
- Exothermic furnace module
[NASA-CASE-MFS-25707-1] c 35 N82-26631
- TEMPERATURE SENSORS**
- Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
- Thermobulb mount Patent
[NASA-CASE-NPO-10158] c 33 N71-16356
- Mount for thermal control system Patent
[NASA-CASE-NPO-10138] c 33 N71-16357
- Heat flux measuring system Patent
[NASA-CASE-XFR-03802] c 33 N71-23085
- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
- Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
- Thin film temperature sensor and method of making same
[NASA-CASE-NPO-11775] c 26 N72-28761
- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122
- Optical crystal temperature gauge with fiber optic connections
[NASA-CASE-MSC-18627-1] c 74 N82-30071
- Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624
- TEMPLATES**
- Microcircuit negative cutter
[NASA-CASE-XLA-09843] c 15 N72-27485
- TENSILE STRENGTH**
- Method of making fiber reinforced metallic composites Patent
[NASA-CASE-XLE-00231] c 17 N70-38198
- Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Method for fiberizing ceramic materials Patent
[NASA-CASE-XNP-00597] c 18 N71-23088
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Device for use in loading tension members --- characterized by elongated elastic body
[NASA-CASE-MFS-21488-1] c 14 N75-24794
- Method of carbonizing polyacrylonitrile fibers
[NASA-CASE-ARC-11261-1] c 24 N83-25789
- Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
- Polyimides containing carbonyl and ether connecting groups
[NASA-CASE-LAR-13633-1] c 27 N87-24575
- Heat treatment for superalloy
[NASA-CASE-LEW-14262-1] c 26 N87-28647
- TENSILE STRESS**
- Rocket nozzle test method Patent
[NASA-CASE-NPO-10311] c 31 N71-15643
- Device for measuring tensile forces
[NASA-CASE-MFS-21728-1] c 35 N74-27865
- Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
- TENSILE TESTS**
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Tension measurement device Patent
[NASA-CASE-XMS-04545] c 15 N71-22878
- Tensile strength testing device Patent
[NASA-CASE-XNP-05634] c 15 N71-24834
- Apparatus for remote measurement of displacement of marks on a specimen undergoing a tensile test
[NASA-CASE-NPO-10778] c 14 N72-11364
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Method and apparatus for tensile testing of metal foil
[NASA-CASE-LAR-10208-1] c 35 N76-18400
- Device for tensioning test specimens within an hermetically sealed chamber
[NASA-CASE-MFS-23281-1] c 35 N77-22450
- Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] c 24 N84-27829
- Tensile testing apparatus
[NASA-CASE-LAR-13243-1] c 35 N85-34375
- Fatigue testing a plurality of test specimens and method
[NASA-CASE-MFS-28118-1] c 39 N87-25601
- Device for measuring hole elongation in a bolted joint
[NASA-CASE-LAR-13453-1] c 37 N88-14361
- Bearing-bypass material system test
[NASA-CASE-LAR-13458-1] c 35 N88-23967
- Furnace for tensile/fatigue testing
[NASA-CASE-LEW-14848-1] c 14 N89-28549
- TENSION**
- Meter for use in detecting tension in straps having predetermined elastic characteristics
[NASA-CASE-MFS-22189-1] c 35 N75-19615
- TERMINAL GUIDANCE**
- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421
- Terminal guidance system --- for guiding aircraft into preselected altitude and/or heading at terminal point
[NASA-CASE-FRC-10049-1] c 04 N74-13420
- Terminal guidance sensor system --- space shuttle coupling to orbiting satellites
[NASA-CASE-NPO-14521-1] c 37 N81-27519
- TERNARY SYSTEMS**
- Nical ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Liquid encapsulated crystal growth
[NASA-CASE-NPO-16808-1-CU] c 76 N87-25868
- TERRAIN**
- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589
- TERRAIN ANALYSIS**
- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
- Method for observing the features characterizing the surface of a land mass
[NASA-CASE-FRC-11013-1] c 43 N81-17499
- TEST CHAMBERS**
- Exposure system for animals Patent
[NASA-CASE-XAC-05333] c 11 N71-22875
- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042
- Flammability test chamber Patent
[NASA-CASE-KSC-10126] c 11 N71-24985
- Pressure seal Patent
[NASA-CASE-NPO-10796] c 15 N71-27068
- Autoignition test cell Patent
[NASA-CASE-KSC-10198] c 11 N71-28629
- Orifice gross leak tester Patent
[NASA-CASE-ERC-10150] c 14 N71-28992
- Method for measuring biaxial stress in a body subjected to stress inducing loads
[NASA-CASE-MFS-23299-1] c 39 N77-28511
- Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] c 25 N86-19413
- TEST EQUIPMENT**
- Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Apparatus for tensile testing Patent
[NASA-CASE-XKS-06250] c 14 N71-15600
- Black-body furnace Patent
[NASA-CASE-XLE-01399] c 33 N71-15625
- Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
- Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276
- Pulse rise time and amplitude detector Patent
[NASA-CASE-XMF-08804] c 09 N71-24717
- Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161
- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Atmospheric sampling devices
[NASA-CASE-NPO-11373] c 13 N72-25323
- Burn rate testing apparatus
[NASA-CASE-XMS-09690] c 33 N72-25913
- Linear explosive comparison
[NASA-CASE-LAR-10800-1] c 33 N72-27959
- Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Rocket borne instrument to measure electric fields inside electrified clouds
[NASA-CASE-KSC-10730-1] c 14 N73-32318
- Compression test assembly
[NASA-CASE-LAR-10440-1] c 14 N73-32323
- Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
- Anti-buckling fatigue test assembly --- for subjecting metal specimen to tensile and compressive loads at constant temperature
[NASA-CASE-LAR-10426-1] c 09 N74-19528
- Method and apparatus for checking fire detectors
[NASA-CASE-GSC-11600-1] c 35 N74-21019
- Battery testing device --- for testing cells of multiple-cell battery
[NASA-CASE-MFS-20761-1] c 44 N74-27519
- Signal conditioner test set
[NASA-CASE-KSC-10750-1] c 35 N75-12270
- Particulate and aerosol detector
[NASA-CASE-LAR-11434-1] c 35 N76-22509
- High temperature strain gage calibration fixture
[NASA-CASE-LAR-11500-1] c 35 N76-24523
- Method of and means for testing a tape record/playback system
[NASA-CASE-MFS-22671-2] c 35 N77-17426
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Ignitability test method and apparatus
[NASA-CASE-LAR-13996-1-SB] c 25 N90-15161
- TEST FACILITIES**
- Electric propulsion engine test chamber Patent
[NASA-CASE-XLE-00252] c 11 N70-34844
- High temperature testing apparatus Patent
[NASA-CASE-XLE-00335] c 14 N70-35368
- Gas analyzer for bi-gaseous mixtures Patent
[NASA-CASE-XLA-01131] c 14 N71-10774
- Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
- Shock tube bypass piston tunnel
[NASA-CASE-NPO-12109] c 11 N72-22245
- TEST STANDS**
- Automatic balancing device Patent
[NASA-CASE-LAR-10774] c 10 N71-13545
- Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
- TEST VEHICLES**
- Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] c 35 N84-33768

TETHERED SATELLITES

Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119

TETHERING

Cable arrangement for rigid tethering Patent
[NASA-CASE-XLA-02332] c 32 N71-17609
Inflatable tether Patent
[NASA-CASE-XMS-10993] c 15 N71-28936

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Flexible/rigidifiable cable assembly
[NASA-CASE-MSC-13512-1] c 15 N72-22485
Tetherline system for orbiting satellites
[NASA-CASE-MFS-23564-1] c 15 N78-25119
Non-backdriveable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037

TETRAETHYL ORTHOSILICATE

Densification of porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18737-1] c 24 N83-13171
Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles
[NASA-CASE-MSC-18736-1] c 24 N83-13172

TETRAPHENYLS

Metal containing polymers from cyclic tetrameric phenylphosphonitrimides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363

TEXTILES

Non-flammable elastomeric fiber from a fluorinated elastomer and containing an halogenated flame retardant
[NASA-CASE-MSC-14331-1] c 27 N76-24405

TEXTS

Braille reading system
[NASA-CASE-LAR-13306-1] c 82 N87-29372

TEXTURES

Modification of the electrical and optical properties of polymers --- ion irradiation to create texture
[NASA-CASE-LEW-13027-1] c 27 N80-24437
Texturing polymer surfaces by transfer casting --- cardiovascular prosthesis
[NASA-CASE-LEW-13120-1] c 27 N82-28440
Surface texturing of fluoropolymers
[NASA-CASE-LEW-13028-1] c 27 N82-33521
Ion sputter textured graphite --- anode collector plates in electron tube devices
[NASA-CASE-LEW-12919-1] c 24 N83-10117

THERAPY

Hyperthermia heating apparatus --- cancer therapy
[NASA-CASE-NPO-14549-2] c 52 N82-33996

THERMAL ABSORPTION

Constant temperature heat sink for calorimeters Patent
[NASA-CASE-XMF-04208] c 33 N71-29051
Solar pond
[NASA-CASE-NPO-13581-2] c 44 N78-31525

THERMAL ANALYSIS

Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

THERMAL COMFORT

Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002

THERMAL CONDUCTIVITY

Enthalpy and stagnation temperature determination of a high temperature laminar flow gas stream Patent
[NASA-CASE-XLE-00266] c 14 N70-34156
Apparatus for measuring thermal conductivity Patent
[NASA-CASE-XGS-01052] c 14 N71-15992
Heated element fluid flow sensor Patent
[NASA-CASE-MSC-12084-1] c 12 N71-17569
Method and apparatus for varying thermal conductivity Patent
[NASA-CASE-XNP-C5524] c 33 N71-24876
Thermally conductive polymers
[NASA-CASE-GSC-11304-1] c 06 N72-21105
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Automatic thermal switch --- spacecraft applications
[NASA-CASE-GSC-12553-1] c 34 N83-28356
Hazards protection for space suits and spacecraft
[NASA-CASE-MSC-21366-1] c 54 N89-12206

THERMAL CONDUCTORS

Thermal conductive connection and method of making same Patent
[NASA-CASE-XMS-02087] c 09 N70-41717
Solar energy absorber
[NASA-CASE-MFS-22743-1] c 44 N76-22657

THERMAL CONTROL COATINGS

Thermal control coating Patent
[NASA-CASE-XLA-01995] c 18 N71-23047
Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772

Inorganic thermal control coatings
[NASA-CASE-MFS-20011] c 18 N72-22566
Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines
[NASA-CASE-ARC-10325] c 06 N72-25147
Refractory porcelain enamel passive control coating for high temperature alloys
[NASA-CASE-MFS-22324-1] c 27 N75-27160
Particulate and solar radiation stable coating for spacecraft
[NASA-CASE-LAR-10805-2] c 34 N77-18382
Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237
Intumescent coatings containing 4,4'-dinitrosulfanilide
[NASA-CASE-ARC-11042-1] c 24 N78-14096
Thermal barrier coating system
[NASA-CASE-LEW-12554-1] c 34 N78-18355
High temperature resistant cermet and ceramic compositions --- for thermal resistant insulators and refractory coatings
[NASA-CASE-NPO-13690-1] c 27 N78-19302
Intumescent-ablator coatings using endothermic fillers
[NASA-CASE-ARC-11043-1] c 24 N78-27180
Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331
Electrically conductive thermal control coatings
[NASA-CASE-GSC-12207-1] c 24 N79-14156
High temperature glass thermal control structure and coating --- for application to spacecraft reusable heat shielding
[NASA-CASE-ARC-11164-1] c 44 N83-34448
Variable anodic thermal control coating
[NASA-CASE-LAR-12719-1] c 44 N83-34449

THERMAL DEGRADATION

Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186

THERMAL DIFFUSIVITY

Double-beam optical method and apparatus for measuring thermal diffusivity and other molecular dynamic processes in utilizing the transient thermal lens effect
[NASA-CASE-NPO-14657-1] c 74 N81-17887

THERMAL EMISSION

Electromagnetic radiation energy arrangement --- coatings for solar energy absorption and infrared reflection
[NASA-CASE-WOO-00428-1] c 32 N79-19186
Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178
Arc-textured high emittance radiator surfaces
[NASA-CASE-LEW-14679-1] c 27 N89-28651

THERMAL ENERGY

Energy conversion apparatus Patent
[NASA-CASE-XLE-00212] c 03 N70-34134
Device for directionally controlling electromagnetic radiation Patent
[NASA-CASE-XLE-01716] c 09 N70-40234
Thermally activated foaming compositions Patent
[NASA-CASE-LAR-10373-1] c 18 N71-26155
Gas core nuclear reactor Patent
[NASA-CASE-LEW-10250-1] c 22 N71-28759
Electrostatically controlled heat shutter
[NASA-CASE-NPO-11942-1] c 33 N73-32818
Solid medium thermal engine
[NASA-CASE-ARC-10461-1] c 44 N74-33379
Panel for selectively absorbing solar thermal energy and the method of producing said panel
[NASA-CASE-MFS-22562-1] c 44 N76-14595
Thermal energy storage system --- operating on superheating of liquids
[NASA-CASE-MFS-23167-1] c 44 N76-31667
Low to high temperature energy conversion system
[NASA-CASE-NPO-13510-1] c 44 N77-32581
Thermal energy transformer
[NASA-CASE-NPO-14058-1] c 44 N79-18443
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389

THERMAL EXPANSION

Thermally operated valve Patent
[NASA-CASE-XLE-00815] c 15 N70-35407
Adjustable mount for a trihedral mirror Patent
[NASA-CASE-XNP-08907] c 23 N71-29123
Thermal motor
[NASA-CASE-NPO-11283] c 09 N72-25260
Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285

High effectiveness contour matching contact heat exchanger
[NASA-CASE-MSC-20840-1] c 34 N88-29132

THERMAL FATIGUE
Automatic fatigue test temperature programmer Patent
[NASA-CASE-XLA-02059] c 33 N71-24276

THERMAL INSULATION
Piping arrangement through a double chamber structure
[NASA-CASE-XNP-08882] c 15 N69-39935
Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Unfired-ceramic flame-resistant insulation and method of making the same Patent
[NASA-CASE-XMF-01030] c 18 N70-41583
Techniques for insulating cryogenic fuel containers Patent
[NASA-CASE-XLA-01967] c 31 N70-42015
Lightweight refractory insulation and method of preparing the same Patent
[NASA-CASE-XMF-05279] c 18 N71-16124
Heat protection apparatus Patent
[NASA-CASE-XLA-00892] c 33 N71-17897
Cryogenic insulation system Patent
[NASA-CASE-XLE-04222] c 23 N71-22881
Insulation system Patent
[NASA-CASE-XLE-02647] c 18 N71-23658
Filament wound container Patent
[NASA-CASE-XLE-03803] c 15 N71-23816
Panelized high performance multilayer insulation Patent
[NASA-CASE-MFS-14023] c 33 N71-25351
Isothermal cover with thermal reservoirs Patent
[NASA-CASE-MFS-20355] c 33 N71-25353
Fabric for micrometeoroid protection garment Patent
[NASA-CASE-MSC-12109] c 18 N71-26285
Thickness measuring and injection device Patent
[NASA-CASE-MFS-20261] c 14 N71-27005
Cryogenic thermal insulation Patent
[NASA-CASE-XMF-05046] c 33 N71-28892
Intumescent composition, foamed product prepared therewith, and process for making same
[NASA-CASE-ARC-10304-1] c 18 N73-26572
Thermal control system for a spacecraft modular housing
[NASA-CASE-GSC-11018-1] c 31 N73-30829
Heater-mixer for stored fluids
[NASA-CASE-ARC-10442-1] c 35 N74-15093
Intumescent composition, foamed product prepared therewith and process for making same
[NASA-CASE-ARC-10304-2] c 27 N74-27037
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts
[NASA-CASE-MSC-14182-1] c 27 N76-14264
Auger attachment method for insulation --- of spacecraft
[NASA-CASE-MSC-12615-1] c 37 N76-19437
Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
Fibrous refractory composite insulation --- shielding reusable spacecraft
[NASA-CASE-ARC-11169-1] c 24 N79-24062
Thermal insulation protection means
[NASA-CASE-MSC-12737-1] c 24 N79-25142
Installing fiber insulation
[NASA-CASE-MSC-16973-1] c 37 N81-14317
Process for the preparation of polycarbonarylphosphazenes --- thermal insulation
[NASA-CASE-ARC-11176-2] c 27 N81-27271
Carboranylclotriphosphazenes and their polymers --- thermal insulation
[NASA-CASE-ARC-11176-1] c 27 N82-18389
A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387
Thermal garment
[NASA-CASE-XMS-03694-1] c 54 N82-29002
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] c 24 N84-16262
Insulation bonding test system
[NASA-CASE-MFS-25862-1] c 27 N85-20126
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] c 39 N86-20841
Ceramic-ceramic shell tile thermal protection system and method thereof
[NASA-CASE-ARC-11641-1] c 24 N88-18628

- Lightweight ceramic insulation and method
[NASA-CASE-MSC-20782-1] c 27 N89-13620
- THERMAL MAPPING**
Noncontact temperature pattern measuring device
[NASA-CASE-NPO-17024-1-CU] c 35 N88-24943
- THERMAL PLASMAS**
Continuous plasma light source
[NASA-CASE-XNP-04167-2] c 25 N72-24753
- THERMAL PROTECTION**
Thermo-protective device for balances Patent
[NASA-CASE-XAC-00648] c 14 N70-40400
Ablation structures Patent
[NASA-CASE-XMS-01816] c 33 N71-15623
Spacecraft radiator cover Patent
[NASA-CASE-MSC-12049] c 31 N71-16080
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Ceramic insulation for radiant heating environments and method of preparing the same Patent
[NASA-CASE-MFS-14253] c 33 N71-24858
Solid state thermal control polymer coating Patent
[NASA-CASE-XLA-01745] c 33 N71-28903
Temperature reducing coating for metals subject to flame exposure Patent
[NASA-CASE-XLE-00035] c 33 N71-29151
Stand-off type ablative heat shield
[NASA-CASE-MSC-12143-1] c 33 N72-17947
Flexible fire retardant polysocyanate modified neoprene foam --- for thermal protective devices
[NASA-CASE-ARC-10180-1] c 27 N74-12814
Adjustable securing base
[NASA-CASE-MSC-19666-1] c 37 N78-17383
Reaction cured glass and glass coatings
[NASA-CASE-ARC-11051-1] c 27 N78-32260
Corrosion resistant thermal barrier coating --- protecting gas turbines and other engine parts
[NASA-CASE-LEW-13088-1] c 26 N81-25188
Attachment system for silica tiles --- thermal protection for space shuttle orbiter
[NASA-CASE-MSC-18741-1] c 27 N82-29456
Multiwall thermal protection system
[NASA-CASE-LAR-12620-1] c 24 N82-32417
High temperature silicon carbide impregnated insulating fabrics
[NASA-CASE-MSC-18832-1] c 27 N83-18908
Silicon-slurry/aluminide coating --- protecting gas turbine engine vanes and blades
[NASA-CASE-LEW-13343] c 26 N83-31795
Thermal barrier coating system having improved adhesion
[NASA-CASE-LEW-1335901] c 27 N83-31855
Covering solid, film cooled surfaces with a duplex thermal barrier coating
[NASA-CASE-LEW-13450-1] c 31 N83-35177
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] c 16 N84-22601
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] c 27 N84-27886
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] c 20 N86-26368
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925
Thermal switch disc for short circuit protection of batteries
[NASA-CASE-MSC-21428-1] c 33 N90-17008
- THERMAL RADIATION**
Compensating radiometer
[NASA-CASE-XLA-04556] c 14 N69-27484
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
High temperature heat source Patent
[NASA-CASE-XLE-00490] c 33 N70-34545
Thermal radiation shielding Patent
[NASA-CASE-XLE-03432] c 33 N71-24145
Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809
Method and construction for protecting heat sensitive bodies from thermal radiation and convective heat Patent
[NASA-CASE-XNP-01310] c 33 N71-28852
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373

THERMAL REACTORS

- Non-equilibrium radiation nuclear reactor
[NASA-CASE-HQN-10841-1] c 73 N78-19920
- THERMAL RESISTANCE**
Diode and protection fuse unit Patent
[NASA-CASE-XKS-03381] c 09 N71-22796
Polyimide foam for the thermal insulation and fire protection
[NASA-CASE-ARC-10464-1] c 27 N74-12812
Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652
Self-regulating proportionally controlled heating apparatus and technique
[NASA-CASE-GSC-11752-1] c 77 N75-20140
Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256
Ambient cure polyimide foams --- thermal resistant foams
[NASA-CASE-ARC-11170-1] c 27 N79-12151
The 1,2,4-oxadiazole elastomers --- heat resistant polymers
[NASA-CASE-ARC-11253-1] c 27 N81-17262
Surface conforming thermal/pressure seal --- tail assemblies of space shuttle orbiters
[NASA-CASE-MSC-18422-1] c 37 N82-16408
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] c 54 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] c 54 N84-28484
Thermal barrier coating system
[NASA-CASE-LEW-13324-2] c 24 N85-21266
High temperature polyimide film laminates and process for preparation thereof
[NASA-CASE-LAR-13384-1] c 27 N86-20561
Fire resistant polyamide based on 1-(diorganooxyphosphonyl)methyl-2,4- and -2,6-diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazene polymer
[NASA-CASE-ARC-11428-2] c 27 N87-16909
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-1] c 27 N87-23751
Method of making a flexible diaphragm
[NASA-CASE-MSC-20797-1] c 37 N87-23981
Fire and heat resistant laminating resins based on maleimido and citraconimido substituted 1-(diorgano oxyphosphonyl) methyl -2,4- and -2,6- diaminobenzenes
[NASA-CASE-ARC-11533-3] c 27 N87-24564
Fire and heat resistant laminating resin based on maleimido and citraconimido substituted 1-(diorganooxyphosphonyl-methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11533-2] c 27 N89-16042
- THERMAL SHOCK**
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Thermal shock resistant hafnia ceramic material
[NASA-CASE-LAR-10894-1] c 18 N73-14584
Thermal shock and erosion resistant tantalum carbide ceramic material
[NASA-CASE-LAR-11902-1] c 27 N78-17206
Laser surface fusion of plasma sprayed ceramic turbine seals
[NASA-CASE-LEW-13269-1] c 18 N83-20996
- THERMAL SIMULATION**
Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- THERMAL STABILITY**
Bonded solid lubricant coating Patent
[NASA-CASE-XMS-00259] c 18 N70-36400
Portable environmental control system Patent
[NASA-CASE-XMS-09632-1] c 05 N71-11203
Metal containing polymers from cyclic tetrameric phenylphosphonitritamides Patent
[NASA-CASE-HQN-10364] c 06 N71-27363
Method of making a cermet Patent
[NASA-CASE-LEW-10219-1] c 18 N71-28729
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
Sound-suppressing structure with thermal relief
[NASA-CASE-LEW-12658-1] c 71 N79-14871
Infusible silazane polymer and process for producing same --- protective coatings
[NASA-CASE-XMF-02526-1] c 27 N79-21190
Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
Aluminum ion-containing polyimide adhesives
[NASA-CASE-LAR-12640-1] c 27 N82-11206

- Low temperature cross linking polyimides
[NASA-CASE-LEW-12876-2] c 27 N83-29392
- Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
High temperature resistant polyimide from tetra ester, diamine, diester and N-arylnadimide
[NASA-CASE-LEW-13864-1] c 27 N86-19457
Ethylnyl and substituted ethylnyl-terminated polysulfones
[NASA-CASE-LAR-12931-2] c 27 N86-21675
Sulfone-ester polymers containing pendent ethylnyl groups
[NASA-CASE-LAR-13316-1] c 27 N86-27450
- THERMAL STRESSES**
Strain gage Patent Application
[NASA-CASE-FRC-10053] c 14 N70-35587
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Low cycle fatigue testing machine
[NASA-CASE-LAR-10270-1] c 32 N72-25877
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Method for alleviating thermal stress damage in laminates --- metal matrix composites
[NASA-CASE-LEW-12493-1] c 24 N81-17170
Method for alleviating thermal stress damage in laminates
[NASA-CASE-LEW-12493-2] c 24 N81-26179
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Daze fasteners
[NASA-CASE-LAR-13009-1] c 37 N85-29285
Thermal stress minimized, two component, turbine shroud seal
[NASA-CASE-LEW-14212-1] c 37 N88-23978
- THERMIONIC CATHODES**
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
- THERMIONIC CONVERTERS**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Thermionic converter with current augmented by self induced magnetic field Patent
[NASA-CASE-XLE-01903] c 22 N71-23599
Cavity emitter for thermionic converter Patent
[NASA-CASE-NPO-10412] c 09 N71-28421
Solar cell Patent
[NASA-CASE-ARC-10050] c 03 N71-33409
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
High current electrical lead --- for thermionic converters
[NASA-CASE-LEW-10950-1] c 33 N74-27683
Electric power generation system directory from laser power
[NASA-CASE-NPO-13308-1] c 36 N75-30524
Nuclear thermionic converter --- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
High thermal power density heat transfer --- thermionic converters
[NASA-CASE-LEW-12950-1] c 34 N82-11399
Thermionic energy converters
[NASA-CASE-LEW-12443-1] c 44 N83-32175
- THERMIONIC DIODES**
Heat pipe thermionic diode power system Patent
[NASA-CASE-XMF-05843] c 03 N71-11055
Thermionic diode switch Patent
[NASA-CASE-NPO-10404] c 03 N71-12255
Micro current measuring device using plural logarithmic response heated filamentary type diodes Patent
[NASA-CASE-XNP-00384] c 09 N71-13530
Power system with heat pipe liquid coolant lines Patent
[NASA-CASE-MFS-14114] c 33 N71-27862
Uninsulated in-core thermionic diode
[NASA-CASE-NPO-10542] c 09 N72-27228
- THERMIONIC EMITTERS**
Thermionic tantalum emitter doped with oxygen Patent Application
[NASA-CASE-NPO-11138] c 03 N70-34646
- THERMIONIC POWER GENERATION**
Control for nuclear thermionic power source
[NASA-CASE-NPO-13114-2] c 73 N78-28913
High thermal power density heat transfer apparatus providing electrical isolation at high temperature using heat pipes
[NASA-CASE-LEW-12950-2] c 34 N85-29179
Thermionic photovoltaic energy converter
[NASA-CASE-LEW-14077-1] c 44 N85-34441
- THERMISTORS**
Matched thermistors for microwave power meters Patent
[NASA-CASE-NPO-10348] c 10 N71-12554

THERMOCHEMISTRY

- Thermistor holder for skin temperature measurements
[NASA-CASE-ARC-10855-1] c 52 N77-10780
Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449

THERMOCHEMISTRY

- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368

THERMOCHROMATIC MATERIALS

- Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-1] c 14 N73-14428
Heat detection and compositions and devices therefor
[NASA-CASE-NPO-10764-2] c 35 N75-25122

THERMOCOUPLE PYROMETERS

- Dual measurement ablation sensor
[NASA-CASE-LAR-10105-1] c 34 N74-15652

THERMOCOUPLES

- Heat flux sensor assembly
[NASA-CASE-XMS-05909-1] c 14 N69-27459
Gas cooled high temperature thermocouple Patent
[NASA-CASE-XLE-09475-1] c 33 N71-15568
Weld control system using thermocouple wire Patent
[NASA-CASE-MFS-06074] c 15 N71-20393
Heat sensing instrument Patent
[NASA-CASE-XLA-01551] c 14 N71-22989
Thermocouple assembly Patent
[NASA-CASE-XNP-01659] c 14 N71-23039
Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
Apparatus for sensing temperature
[NASA-CASE-XLE-05230] c 14 N72-27410
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Thermocouple tape --- developed from thermoelectrically different metals
[NASA-CASE-LEW-11072-2] c 35 N76-15434
Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
Thermocouples of tantalum and rhenium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12050-1] c 35 N77-32454
Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
Thermocouple, multiple junction reference oven
[NASA-CASE-FRC-10112-1] c 35 N81-26431
Solar energy control system --- temperature measurement
[NASA-CASE-MFS-25287-1] c 44 N82-18686
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Thermocouple for heating and cooling of memory metal actuators
[NASA-CASE-NPO-17068-1-CU] c 35 N88-29151
- THERMODYNAMIC CYCLES**
Solar engine
[NASA-CASE-LAR-12148-1] c 44 N82-24640
- THERMODYNAMIC EFFICIENCY**
Automatic compression adjusting mechanism for internal combustion engines
[NASA-CASE-MSC-18807-1] c 37 N83-36483
- THERMODYNAMIC PROPERTIES**
Thermal shock apparatus Patent
[NASA-CASE-XLE-02024] c 14 N71-22964
Foamed in place ceramic refractory insulating material Patent
[NASA-CASE-XGS-02435] c 18 N71-22998
Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] c 27 N85-21352
Fire resistant polyamide based on 1-(diorganoxyphosphonyl)methyl-2,4- and -2,6diamino benzene
[NASA-CASE-ARC-11512-2] c 27 N86-32568
- THERMODYNAMICS**
Joule Thomson refrigerator
[NASA-CASE-NPO-17143-1-CU] c 31 N89-14351
- THERMOELECTRIC GENERATORS**
Protection for energy conversion systems
[NASA-CASE-XGS-04808] c 03 N69-25146
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136

- Thermally cascaded thermoelectric generator
[NASA-CASE-NPO-10753] c 03 N72-26031

THERMOELECTRIC MATERIALS

- Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
Segmenting lead telluride-silicon germanium thermoelements Patent
[NASA-CASE-XGS-05718] c 26 N71-16037
Stabilized lanthanum sulphur compounds --- thermoelectric materials
[NASA-CASE-NPO-16135-1] c 25 N83-24572

THERMOELECTRIC POWER GENERATION

- Two-fluid magnetohydrodynamic system and method for thermal-electric power conversion Patent
[NASA-CASE-XNP-00644] c 03 N70-36803
Combined electrolysis device and fuel cell and method of operation Patent
[NASA-CASE-XLE-01645] c 03 N71-20904
Thermoelectric power system --- for spacecraft
[NASA-CASE-MFS-22002-1] c 44 N76-16612

THERMOELECTRICITY

- Thermocouple tape
[NASA-CASE-LEW-11072-1] c 14 N73-24472
Apparatus and method for measuring the Seebeck coefficient and resistivity of materials
[NASA-CASE-NPO-11749] c 14 N73-28486
Annealing group III-V compound doped silicon-germanium alloy for improved thermo-electric conversion efficiency
[NASA-CASE-NPO-17259-1-CU] c 76 N90-19884

THERMOLUMINESCENCE

- Method of detecting oxygen in a gas
[NASA-CASE-LAR-10868-1] c 06 N73-16106
Thermoluminescent aerosol analysis
[NASA-CASE-LAR-12046-1] c 25 N78-15210

THERMOMAGNETIC EFFECTS

- Thermomagnetic recording and magneto-optic playback system having constant intensity laser beam control
[NASA-CASE-NPO-11317-2] c 36 N74-13205
Thermomagnetic recording and magnetic-optic playback system
[NASA-CASE-NPO-10872-1] c 35 N79-16246

THERMOMETERS

- Platinum resistance thermometer circuit
[NASA-CASE-MSC-12327-1] c 35 N77-27368
Temperature sensitive oscillator
[NASA-CASE-GSC-12958-1] c 33 N86-32624

THERMOPHYSICAL PROPERTIES

- Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Apparatus for determining thermophysical properties of test specimens
[NASA-CASE-LAR-11883-1] c 09 N77-27131

THERMOPILES

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598
Horizon sensor with a plurality of fixedly positioned radiation compensated radiation sensitive detectors Patent
[NASA-CASE-XNP-06957] c 14 N71-21088
Irradiance measuring device
[NASA-CASE-NPO-11493] c 14 N73-12447

THERMOPLASTIC FILMS

- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Hot melt recharge system --- repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] c 27 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] c 27 N84-14324
Induction heating gun
[NASA-CASE-LAR-13181-1] c 31 N85-29083
Polyphenylquinoxalines via aromatic nucleophilic displacement
[NASA-CASE-LAR-13988-1] c 23 N89-11814

THERMOPLASTIC RESINS

- Boron trifluoride coatings for thermoplastic materials and method of applying same in glow discharge
[NASA-CASE-ARC-11057-1] c 27 N78-31233
Thermoplastic rubber comprising ethylene-vinyl acetate copolymer, asphalt and fluxing oil
[NASA-CASE-NPO-08835-1] c 27 N78-33228
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Method of making formulated plastic separators for soluble electrode cells
[NASA-CASE-LEW-12358-2] c 25 N82-21268
One-step dual purpose joining technique
[NASA-CASE-LAR-12595-1] c 33 N82-26571

- Advanced inorganic separators for alkaline batteries
[NASA-CASE-LEW-13171-1] c 44 N82-29708
Advanced inorganic separators for alkaline batteries and method of making the same
[NASA-CASE-LEW-13171-2] c 44 N83-32176
Polyphenylquinoxalines containing pendant phenylethynyl and ethynyl groups --- for thermoplastic resins
[NASA-CASE-LAR-12838-1] c 27 N83-34040
Solvent resistant thermoplastic aromatic poly(imidesulfone) and process for preparing same
[NASA-CASE-LAR-12858-1] c 27 N83-34041
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] c 27 N84-22747
Hot melt adhesive attachment pad
[NASA-CASE-LAR-12894-1] c 27 N85-20125
Phenoxy resins containing pendent ethynyl groups and cured resins obtained therefrom
[NASA-CASE-LAR-13262-1] c 23 N85-28973
Process for crosslinking and extending conjugated diene-containing polymers
[NASA-CASE-LAR-13452-1] c 27 N87-22848
Pultrusion die assembly
[NASA-CASE-LAR-13719-1] c 37 N89-12867
Seminterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334

THERMOPLASTICITY

- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
Heat sealable, flame and abrasion resistant coated fabric --- clothing and containers for space exploration
[NASA-CASE-MSC-18382-1] c 27 N82-16238
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] c 27 N84-22746
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-1] c 27 N85-20123
Process for preparing solvent resistant, thermoplastic aromatic poly(imidesulfone)
[NASA-CASE-LAR-12858-2] c 27 N85-20124

THERMOREGULATION

- Garments for controlling the temperature of the body Patent
[NASA-CASE-XMS-10269] c 05 N71-24147

THERMOSETTING RESINS

- Method for molding compounds Patent
[NASA-CASE-XLA-01091] c 15 N71-10672
Method and apparatus for bonding a plastics sleeve onto a metallic body Patent
[NASA-CASE-XLA-01262] c 15 N71-21404
Honeycomb panel and method of making same Patent
[NASA-CASE-XMF-01402] c 18 N71-21651
Method of forming shapes from planar sheets of thermosetting materials
[NASA-CASE-NPO-11036] c 15 N72-24522
Highly fluorinated polyurethanes
[NASA-CASE-NPO-10767-2] c 06 N72-27151
Evacuated displacement compression molding
[NASA-CASE-LAR-10782-1] c 31 N74-14133
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124
Evacuated, displacement compression mold --- of tubular bodies from thermosetting plastics
[NASA-CASE-LAR-10782-2] c 31 N75-13111
Cork-resin ablative insulation for complex surfaces and method for applying the same
[NASA-CASE-MFS-23626-1] c 24 N80-26388
Polymeric compositions and their method of manufacture --- forming filled polymer systems using cryogenics
[NASA-CASE-NPO-10424-1] c 27 N81-24258
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Cellular thermosetting fluoropolymers and process for making them
[NASA-CASE-GSC-13008-1] c 27 N88-23894
Seminterpenetrating polymer network for tougher and more microcracking resistant high temperature polymers
[NASA-CASE-LAR-13925-1] c 27 N89-25334
Method of controlling a resin curing process --- for fiber reinforced composites
[NASA-CASE-MSC-21169-1] c 27 N89-29539
Cellular thermosetting fluorodiepoxy polymers
[NASA-CASE-GSC-13008-2] c 27 N90-16949
- THERMOSTATS**
Thermal switch Patent
[NASA-CASE-XNP-00463] c 33 N70-36847
Thermostatic actuator
[NASA-CASE-NPO-10637] c 15 N72-12409

- Thermostatically controlled non-tracking type solar energy concentrator
[NASA-CASE-NPO-13497-1] c 44 N76-14602
- THICK FILMS**
Screened circuit capacitors
[NASA-CASE-LAR-10294-1] c 26 N72-28762
- THICKNESS**
Myocardium wall thickness transducer and measuring method
[NASA-CASE-NPO-13644-1] c 52 N76-29895
Thickness measurement system
[NASA-CASE-MFS-23721-1] c 31 N79-28370
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
Ice detector
[NASA-CASE-LAR-13776-1] c 35 N88-29149
Liquid thickness gauge
[NASA-CASE-LAR-13826-1] c 35 N88-29150
- THIN FILMS**
Temperature sensitive capacitor device
[NASA-CASE-XNP-09750] c 14 N69-39937
Means and methods of depositing thin films on substrates Patent
[NASA-CASE-XNP-00595] c 15 N70-34967
Method of forming thin window drifted silicon charged particle detector Patent
[NASA-CASE-XLE-00808] c 24 N71-10560
Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
GaAs solar detector using manganese as a doping agent Patent
[NASA-CASE-XNP-01328] c 26 N71-18064
Stable amplifier having a stable quiescent point Patent
[NASA-CASE-XGS-02812] c 09 N71-19466
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
Method of electrolytically binding a layer of semiconductors together Patent
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[NASA-CASE-NPO-10331] c 09 N71-26701
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[NASA-CASE-GSC-10097-1] c 08 N71-27210
Thin film capacitive bolometer and temperature sensor Patent
[NASA-CASE-NPO-10607] c 09 N71-27232
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[NASA-CASE-XMS-02182] c 10 N71-28783
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[NASA-CASE-ERC-10222] c 09 N72-22199
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[NASA-CASE-LAR-10513-1] c 07 N72-25170
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[NASA-CASE-LAR-10836-1] c 26 N72-27784
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487
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[NASA-CASE-LAR-10765-1] c 32 N73-20740
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Holographic thin film analyzer
[NASA-CASE-MFS-20823-1] c 16 N73-30476
Transparent switchboard
[NASA-CASE-MSC-13746-1] c 10 N73-32143
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
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[NASA-CASE-NPO-13050-1] c 36 N75-15029
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[NASA-CASE-ARC-10445-1] c 31 N76-31365
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[NASA-CASE-LEW-12083-1] c 37 N78-13436
Strong thin membrane structure --- solar sails
[NASA-CASE-NPO-14021-2] c 27 N80-16163
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- Glass heating panels and method for preparing the same from architectural reflective glass
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[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543
Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120
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[NASA-CASE-NPO-17812-1-CU] c 76 N90-17456
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- THIN PLATES**
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- THIN WALLED SHELLS**
Thin-walled pressure vessel Patent
[NASA-CASE-XLE-04677] c 15 N71-10577
- THIN WALLS**
Channel-type shell construction for rocket engines and the like Patent
[NASA-CASE-XLE-00144] c 28 N70-34860
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[NASA-CASE-NPO-10064] c 15 N71-17693
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
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[NASA-CASE-MFS-14216] c 14 N73-13418
Method of fabricating an article with cavities --- with thin bottom walls
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[NASA-CASE-LAR-10409-1] c 31 N74-21059
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- THORIUM OXIDES**
Nuclear thermionic converter --- tungsten-thorium oxide rods
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[NASA-CASE-XMF-04966] c 14 N71-17658
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[NASA-CASE-MSC-21560-1] c 51 N90-18852
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[NASA-CASE-MSC-12394-1] c 08 N74-10942
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[NASA-CASE-MSC-21372-1] c 35 N89-12842
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[NASA-CASE-NPO-10769] c 08 N72-11171
Radiation hardening of MOS devices by boron --- for stabilizing gate threshold potential
[NASA-CASE-GSC-11425-2] c 76 N75-25730
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SCR blocking pulse gate amplifier Patent
[NASA-CASE-XLA-07497] c 09 N71-12514
- THROATS**
Method of making a rocket nozzle
[NASA-CASE-XMF-06884-1] c 20 N79-21123
- THRUST AUGMENTATION**
Nozzle Patent
[NASA-CASE-XLA-00154] c 28 N70-33374
Construction and method of arranging a plurality of ion engines to form a cluster Patent
[NASA-CASE-XNP-02923] c 28 N71-23081
Reversed cowl flap inlet thrust augmentor --- with adjustable airfoil
[NASA-CASE-ARC-10754-1] c 07 N75-24736
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- THRUST BEARINGS**
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[NASA-CASE-LEW-11949-1] c 37 N76-29588
- THRUST CHAMBER PRESSURE**
Pitch attitude stabilization system utilizing engine pressure ratio feedback signals
[NASA-CASE-LAR-12562-1] c 08 N81-26152
- THRUST CHAMBERS**
Rocket chamber leak test fixture
[NASA-CASE-XFR-09479] c 14 N69-27503
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[NASA-CASE-XMF-00580] c 11 N70-35383
Rocket thrust chamber Patent
[NASA-CASE-XLE-00145] c 28 N70-36806
Method of making a rocket motor casing Patent
[NASA-CASE-XLE-00409] c 28 N71-15658
Rocket motor casing Patent
[NASA-CASE-XLE-05689] c 28 N71-15659
Rocket engine injector Patent
[NASA-CASE-XLE-03157] c 28 N71-24736
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[NASA-CASE-NPO-10046] c 28 N72-17843
Fluidic proportional thruster system
[NASA-CASE-ARC-10106-1] c 28 N72-22769
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[NASA-CASE-LEW-10770-1] c 28 N72-22770
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[NASA-CASE-NPO-12070-1] c 28 N73-32606
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[NASA-CASE-LEW-12252-1] c 34 N79-13288
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[NASA-CASE-LEW-12441-1] c 34 N79-13289
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[NASA-CASE-XNP-05975] c 15 N69-23185
Apparatus and method for control of a solid fueled rocket vehicle Patent
[NASA-CASE-XNP-00217] c 28 N70-38181
Thrust and direction control apparatus Patent
[NASA-CASE-XLE-03583] c 31 N71-17629
Continuous detonation reaction engine Patent
[NASA-CASE-XMF-06926] c 28 N71-22983
High efficiency ionizer assembly Patent
[NASA-CASE-XNP-01954] c 28 N71-28850
Heated porous plug microthruster
[NASA-CASE-GSC-10640-1] c 28 N72-18766
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Fluid thrust control system --- for liquid propellant rocket engines
[NASA-CASE-XMF-05964-1] c 20 N79-21124
- THRUST LOADS**
Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382
- THRUST MEASUREMENT**
Thrust dynamometer Patent
[NASA-CASE-XLE-00702] c 14 N70-40203
Thrust dynamometer Patent
[NASA-CASE-XLE-05260] c 14 N71-20429
Precision thrust gage Patent
[NASA-CASE-XGS-02319] c 14 N71-22965
Micro-pound extended range thrust stand Patent
[NASA-CASE-GSC-10710-1] c 28 N71-27094
- THRUST REVERSAL**
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
- THRUST VECTOR CONTROL**
Thrust vector control apparatus Patent
[NASA-CASE-XLE-00208] c 28 N70-34294
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[NASA-CASE-XLA-01339] c 31 N71-15692
Ion beam deflector Patent
[NASA-CASE-LEW-10689-1] c 28 N71-26173
Tertiary flow injection thrust vectoring system Patent
[NASA-CASE-MFS-20831] c 28 N71-29153
Flight control system
[NASA-CASE-MSC-13397-1] c 21 N72-25595
Rocket thrust throttling system
[NASA-CASE-LEW-10374-1] c 28 N73-13773
System for imposing directional stability on a rocket-propelled vehicle
[NASA-CASE-MFS-21311-1] c 20 N76-21275
Hybrid plume plasma rocket
[NASA-CASE-MSC-20476-2] c 20 N89-25279
- THRUST-WEIGHT RATIO**
Missile launch release system Patent
[NASA-CASE-XMF-03198] c 30 N70-40353

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Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array

[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

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Electrical power generating system --- for windpowered generation

[NASA-CASE-MFS-24368-3] c 33 N81-22280

Pulsed thyristor trigger control circuit

[NASA-CASE-MFS-25616-1] c 33 N84-16455

Phase detector for three-phase power factor controller

[NASA-CASE-MFS-25854-1] c 33 N84-27975

Three-phase power factor controller with induced EMF sensing

[NASA-CASE-MFS-25852-1] c 33 N84-33661

TILES

Strain arrestor plate for fused silica tile --- bonding of thermal insulation to metallic plates or structural parts

[NASA-CASE-MSC-14182-1] c 27 N76-14264

Attachment system for silica tiles --- thermal protection for space shuttle orbiter

[NASA-CASE-MSC-18741-1] c 27 N82-29456

Method for repair of thin glass coatings --- on space shuttle orbiter tiles

[NASA-CASE-KSC-11097-1] c 27 N82-33520

Densification of porous refractory substrates --- space shuttle orbiter tiles

[NASA-CASE-MSC-18737-1] c 24 N83-13171

Method of repairing surface damage to porous refractory substrates --- space shuttle orbiter tiles

[NASA-CASE-MSC-18736-1] c 24 N83-13172

Apparatus for accurately preloading auger attachment means for frangible protective material

[NASA-CASE-MSC-18791-1] c 37 N83-36482

Shell tile thermal protection system

[NASA-CASE-LAR-12862-1] c 27 N84-27886

Mechanical fastener

[NASA-CASE-LAR-12738-2] c 37 N85-30335

Ceramic-ceramic shell tile thermal protection system and method thereof

[NASA-CASE-ARC-11641-1] c 24 N88-18628

TILT WING AIRCRAFT

Free wing assembly for an aircraft

[NASA-CASE-FRC-10092-1] c 05 N79-12061

Apparatus for using a time interval counter to measure frequency stability

[NASA-CASE-NPO-17325-1-CU] c 32 N90-17005

Variable time constant smoothing circuit Patent

[NASA-CASE-XGS-01983] c 10 N70-41964

Instrument for determining coincidence and elapse time between independent sources of random sequential events

[NASA-CASE-LAR-12531-1] c 35 N83-29651

Ultra-long monostable multivibrator employing bistable semiconductor switch to allow charging of timing circuit Patent

[NASA-CASE-XGS-00381] c 09 N70-34819

Time division multiplex system

[NASA-CASE-XGS-05918] c 07 N69-39974

Time-division multiplexer Patent

[NASA-CASE-XNP-00431] c 09 N70-38998

Data processor having multiple sections activated at different times by selective power coupling to the sections Patent

[NASA-CASE-XGS-04767] c 08 N71-12494

Data compression system with a minimum time delay unit Patent

[NASA-CASE-XNP-08832] c 08 N71-12506

Time division radio relay synchronizing system using different sync code words for in sync and out of sync conditions Patent

[NASA-CASE-GSC-10373-1] c 07 N71-19773

Signal processing apparatus for multiplex transmission Patent

[NASA-CASE-NPO-10388] c 07 N71-24622

Programmable telemetry system Patent

[NASA-CASE-GSC-10131-1] c 07 N71-24624

High dynamic global positioning system receiver

[NASA-CASE-NPO-16171-1CU] c 04 N86-27270

Single or joint amplitude distribution analyzer Patent

[NASA-CASE-XNP-01383] c 09 N71-10659

Closed loop ranging system Patent

[NASA-CASE-XNP-01501] c 21 N70-41930

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[NASA-CASE-XNP-08832] c 08 N71-12506

Signal phase estimator

[NASA-CASE-NPO-11203] c 10 N72-20224

Automatic transponder --- measurement of the internal delay time of a transponder

[NASA-CASE-GSC-12075-1] c 32 N77-31350

Time delay and integration detectors using charge transfer devices

[NASA-CASE-GSC-12324-1] c 33 N81-33403

Time domain phase measuring apparatus

[NASA-CASE-GSC-12228-1] c 33 N79-10338

Synchronization tracking in pulse position modulation receiver

[NASA-CASE-NPO-16256-1] c 32 N87-21207

Measurement of time differences between luminous events Patent

[NASA-CASE-XLA-01987] c 23 N71-23976

Error correction method and apparatus for electronic timepieces

[NASA-CASE-LAR-12654-1] c 33 N83-36357

Time of flight mass spectrometer with feedback means from the detector to the low source and a specific counter Patent

[NASA-CASE-XNP-01056] c 14 N71-23041

Apparatus for statistical time-series analysis of electrical signals

[NASA-CASE-MSC-12428-1] c 10 N73-25240

Solid sorbent air sampler

[NASA-CASE-MSC-20653-1] c 35 N86-26595

Method and apparatus for determining time, direction and composition of impacting space particles

[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132

Integrated time shared instrumentation display Patent

[NASA-CASE-XLA-01952] c 08 N71-12507

System for monitoring signal amplitude ranges

[NASA-CASE-XMS-04061-1] c 09 N69-39885

Method of resolving clock synchronization error and means therefor Patent

[NASA-CASE-XNP-08875] c 10 N71-23099

Time synchronization system utilizing moon reflected coded signals Patent

[NASA-CASE-NPO-10143] c 10 N71-26326

Counter Patent

[NASA-CASE-XNP-06234] c 10 N71-27137

System for generating timing and control signals

[NASA-CASE-NPO-13125-1] c 33 N75-19519

Precise RF timing signal distribution to remote stations --- fiber optics

[NASA-CASE-NPO-14749-1] c 32 N81-14186

Synchronous servo loop control system Patent

[NASA-CASE-XNP-03744] c 10 N71-20448

Method of resolving clock synchronization error and means therefor Patent

[NASA-CASE-XNP-08875] c 10 N71-23099

Resettable monostable pulse generator Patent

[NASA-CASE-GSC-11139] c 09 N71-27016

Data transfer system Patent

[NASA-CASE-NPO-12107] c 08 N71-27255

High speed photo-optical time recording

[NASA-CASE-KSC-10294] c 14 N72-18411

Timing control system

[NASA-CASE-NPO-16882-1-CU] c 33 N88-24863

Thin wire pointing method

[NASA-CASE-NPO-15789-1] c 31 N83-19947

Excessive temperature warning system Patent

[NASA-CASE-XLA-01926] c 14 N71-15620

Resilient wheel Patent

[NASA-CASE-MFS-13929] c 15 N71-27091

Servo-controlled intravital microscope system

[NASA-CASE-NPO-13214-1] c 35 N75-25123

Method and system for in vivo measurement of bone tissue using a two level energy source

[NASA-CASE-MSC-14276-1] c 52 N77-14737

System for and method of freezing biological tissue

[NASA-CASE-GSC-12173-1] c 51 N79-10694

Coupling apparatus for ultrasonic medical diagnostic system

[NASA-CASE-NPO-13935-1] c 52 N79-14751

Apparatus and method of inserting a microelectrode in body tissue or the like using vibration means

[NASA-CASE-NPO-13910-1] c 52 N79-27836

Multifunctional transducer

[NASA-CASE-NPO-14329-1] c 52 N81-20703

Enhancement of in vitro guayule propagation

[NASA-CASE-NPO-15213-1] c 51 N83-17045

Method for thermal monitoring subcutaneous tissue

[NASA-CASE-LAR-13028-1] c 52 N85-30618

Horizontally rotated cell culture system

[NASA-CASE-MSC-21294-1] c 51 N89-13131

Spiral vane bioreactor

[NASA-CASE-MSC-21361-1] c 51 N89-25557

Apparatus for imaging deep arterial and coronary lesions

[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391

Three-dimensional coculture process

[NASA-CASE-MSC-21560-1] c 51 N90-18852

Synthesis of zinc titanate pigment and coatings containing the same

[NASA-CASE-MFS-13532] c 18 N72-17532

Method of joining aluminum to stainless steel Patent

[NASA-CASE-MFS-07369] c 15 N71-20443

Weld-bonded titanium structures

[NASA-CASE-LAR-11549-1] c 37 N77-11397

Method of mitigating titanium impurities effects in p-type silicon material for solar cells

[NASA-CASE-NPO-14635-1] c 44 N80-24741

Method and apparatus for coating substrates using a laser

[NASA-CASE-LEW-13526-1] c 36 N84-22944

Oxygen diffusion barrier coating

[NASA-CASE-LAR-13474-1-SB] c 26 N87-25455

Method of inhibiting stress corrosion cracks in titanium alloys Patent

[NASA-CASE-NPO-10271] c 17 N71-16393

Nondestructive spot test method for titanium and titanium alloys

[NASA-CASE-LAR-10539-1] c 17 N73-12547

Method and apparatus for coating substrates using a laser

[NASA-CASE-LEW-13526-1] c 36 N84-22944

Improved refractory coatings --- sputtered coatings on substrates that form stable nitrides

[NASA-CASE-LEW-23169-2] c 26 N81-16209

Method of preparing zinc orthotitanate pigment

[NASA-CASE-MFS-23345-1] c 27 N77-30237

Universal restrainer and joint Patent

[NASA-CASE-XNP-02278] c 15 N71-28951

Supercritical multicomponent solvent coal extraction

[NASA-CASE-NPO-15767-1] c 23 N84-16255

System for plotting subsoil structure and method thereof

[NASA-CASE-NPO-14191-1] c 31 N80-32584

Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects

[NASA-CASE-GSC-12851-1] c 35 N85-30281

Tool attachment for spreading loose elements away from work Patent

[NASA-CASE-XMF-02107] c 15 N71-10809

Adjustable attitude guide device Patent

[NASA-CASE-XLA-07911] c 15 N71-15571

Tube dimpling tool Patent

[NASA-CASE-XMS-06876] c 15 N71-21536

Stud-bonding gun

[NASA-CASE-MFS-20299] c 15 N72-11392

Insert facing tool --- manually operated cutting tool for forming studs in honeycomb material

[NASA-CASE-MFS-21485-1] c 37 N74-25968

Stator rotor tools

[NASA-CASE-MSC-16000-1] c 37 N78-24544

Computer circuit card puller

[NASA-CASE-FRC-11042-1] c 60 N82-24839

Open ended tubing cutters

[NASA-CASE-MSC-18538-1] c 37 N82-26672

Apparatus for accurately preloading auger attachment means for frangible protective material

[NASA-CASE-MSC-18791-1] c 37 N83-36482

Tubing and cable cutting tool

[NASA-CASE-LAR-12786-1] c 37 N84-28085

Connection system --- insuring against loss of a tool component without using multiple tethers

[NASA-CASE-MSC-20319-1] c 37 N85-21649

Tool and process for miniature explosive joining of tubes

[NASA-CASE-LAR-13662-1] c 37 N88-14359

Adjustable depth gage

[NASA-CASE-LEW-14880-1] c 35 N90-10415

Mechanized fluid connector and assembly tool system

[NASA-CASE-MSC-21434-1] c 37 N90-17138

Process for the preparation of brushite crystals

[NASA-CASE-ERC-10338] c 04 N72-33072

Method for observing the features characterizing the surface of a land mass

[NASA-CASE-FRC-11013-1] c 43 N81-17499

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 Apparatus for welding torch angle and seam tracking control Patent
 [NASA-CASE-XMF-03287] c 15 N71-15607
 Electric welding torch Patent
 [NASA-CASE-XMF-02330] c 15 N71-23798
 Computerized system for translating a torch head
 [NASA-CASE-MFS-23620-1] c 37 N79-10421
 Welding torch with arc light reflector
 [NASA-CASE-MFS-29134-1] c 74 N87-17493
 Welding torch gas cup extension
 [NASA-CASE-MFS-29252-1] c 37 N88-23980
 Electrode carrying wire for GTAW welding
 [NASA-CASE-MFS-29491-1] c 31 N89-23738
 Internal wire guide for GTAW welding
 [NASA-CASE-MFS-29489-1] c 31 N89-23739
- TOROIDAL SHELLS**
 Toroidal cell and battery --- storage battery for high amp-hour load applications
 [NASA-CASE-LEW-12918-1] c 44 N81-24521
- TOROIDS**
 Flux sensing device using a tubular core with toroidal gating coil and solenoidal output coil wound thereon Patent
 [NASA-CASE-XGS-01881] c 09 N70-40123
 Shaft transducer having dc output proportional to angular velocity
 [NASA-CASE-NPO-15706-1] c 35 N84-28017
- TORQUE**
 Bidirectional step torque filter with zero backlash characteristic Patent
 [NASA-CASE-XGS-04227] c 15 N71-21744
 Isolation coupling arrangement for a torque measuring system
 [NASA-CASE-XLA-04897] c 15 N72-22482
 High-torque open-end wrench
 [NASA-CASE-NPO-13541-1] c 37 N79-14383
 Acoustic driving of rotor
 [NASA-CASE-NPO-14005-1] c 71 N79-20827
 Magnetic field control --- electromechanical torquing device
 [NASA-CASE-MFS-23828-1] c 33 N82-26569
 Missile rolling tail brake torque system --- simulating bearing friction on canard controlled missiles
 [NASA-CASE-LAR-12751-1] c 15 N84-16231
 Directional gear ratio transmissions
 [NASA-CASE-LAR-12644-1] c 37 N84-28084
 Helicopter anti-torque system using strakes
 [NASA-CASE-LAR-13233-1] c 05 N84-33400
 Dual towline spin-recovery device
 [NASA-CASE-LAR-13076-1] c 08 N85-35200
 Helicopter anti-torque system using fuselage strakes
 [NASA-CASE-LAR-13630-1] c 08 N88-23809
- TORQUE MOTORS**
 Low speed phaselock speed control system --- for brushless dc motor
 [NASA-CASE-GSC-11127-1] c 09 N75-24758
 Magnetic bearing and motor
 [NASA-CASE-GSC-12726-1] c 37 N83-34323
- TORQUEMETERS**
 Optical torquemeter Patent
 [NASA-CASE-XLE-00503] c 14 N70-34818
 Balance torquemeter Patent
 [NASA-CASE-XGS-01013] c 14 N71-23725
 Pressure suit joint analyzer
 [NASA-CASE-ARC-11314-1] c 54 N82-26987
- TORSION**
 A torsional suspension system for testing space structures
 [NASA-CASE-LAR-14149-1-SB] c 14 N89-28547
- TORSO**
 Restraint torso for a pressurized suit
 [NASA-CASE-MSC-12397-1] c 05 N72-25119
 Spacesuit torso closure
 [NASA-CASE-ARC-11100-1] c 54 N78-31736
 Torso sizing ring construction for hard space suit
 [NASA-CASE-ARC-11616-1] c 54 N86-28618
- TOUCH**
 Mechanically actuated triggered hand
 [NASA-CASE-MFS-20413] c 15 N72-21463
 Method for measuring cutaneous sensory perception
 [NASA-CASE-MSC-13609-1] c 05 N72-25122
 Tactile sensing means for prosthetic limbs
 [NASA-CASE-MFS-16570-1] c 05 N73-32013
- TOUGHNESS**
 Toughening reinforced epoxy composites with brominated polymeric additives
 [NASA-CASE-ARC-11427-1] c 24 N86-19380
 High performance mixed bisimide resins and composites based thereon
 [NASA-CASE-ARC-11538-1SB] c 24 N86-21590
 Toughening reinforced epoxy composites with brominated polymeric additives
 [NASA-CASE-ARC-11427-2] c 27 N86-27451
- TOWERS**
 Aerial capsule emergency separation device Patent
 [NASA-CASE-XLA-00115] c 03 N70-33343
- TOXICITY**
 Glass compositions with a high modulus of elasticity --- nontoxic glass fibers
 [NASA-CASE-HQN-10274-1] c 27 N82-29451
- TOXICITY AND SAFETY HAZARD**
 Apparatus for remote handling of materials --- mixing or analyzing dangerous chemicals
 [NASA-CASE-LAR-10634-1] c 37 N74-18123
- TOXICOLOGY**
 Exposure system for animals Patent
 [NASA-CASE-XAC-05333] c 11 N71-22875
- TRACE CONTAMINANTS**
 Microbalance including crystal oscillators for measuring contaminants in a gas system Patent
 [NASA-CASE-NPO-10144] c 14 N71-17701
 Method for removing oxygen impurities from cesium Patent
 [NASA-CASE-XNP-04262-2] c 17 N71-26773
 Electric discharge for treatment of trace contaminants
 [NASA-CASE-ARC-10975-1] c 33 N79-15245
 Nebulization reflux concentrator
 [NASA-CASE-LAR-13254-1CU] c 35 N86-29174
- TRACE ELEMENTS**
 Ion microprobe mass spectrometer for analyzing fluid materials Patent
 [NASA-CASE-ERC-10014] c 14 N71-28863
 Automated system for identifying traces of organic chemical compounds in aqueous solutions
 [NASA-CASE-NPO-13063-1] c 25 N76-18245
 Nulling device for detection of trace gases by NDIR absorption
 [NASA-CASE-ARC-10760-1] c 25 N76-22323
 Thermoluminescent aerosol analysis
 [NASA-CASE-LAR-12046-1] c 25 N78-15210
 Reversal electron attachment ionizer for detection of trace species
 [NASA-CASE-NPO-17596-1-CU] c 35 N89-28795
- TRACKED VEHICLES**
 Tank tread assemblies with track-linking mechanism
 [NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- TRACKING (POSITION)**
 Plurality of photosensitive cells on a pyramidal base for planetary trackers
 [NASA-CASE-XNP-04180] c 07 N69-39736
 Telespectrograph Patent
 [NASA-CASE-XLA-03273] c 14 N71-18699
 Method and apparatus for aligning a laser beam projector Patent
 [NASA-CASE-NPO-11087] c 23 N71-29125
 Mount for continuously orienting a collector dish in a system adapted to perform both diurnal and seasonal solar tracking
 [NASA-CASE-MFS-23267-1] c 35 N77-20401
 System and method for tracking a signal source --- employing feedback control
 [NASA-CASE-HQN-10880-1] c 17 N78-17140
 Sun tracking solar energy collector
 [NASA-CASE-NPO-13921-1] c 44 N79-14526
 Method and apparatus for positioning a robotic end effector
 [NASA-CASE-MSC-21476-1] c 37 N90-17137
- TRACKING FILTERS**
 Automatic acquisition system for phase-lock loop
 [NASA-CASE-XGS-04994] c 09 N69-21543
 Apparatus and method for stabilized phase detection for binary signal tracking loops
 [NASA-CASE-MSC-16461-1] c 33 N79-11313
 PN lock indicator for dithered PN code tracking loop
 [NASA-CASE-NPO-14435-1] c 33 N81-33405
- TRACKING RADAR**
 Monopulse system with an electronic scanner
 [NASA-CASE-XGS-05582] c 07 N69-27460
 Phase-locked loop with sideband rejecting properties Patent
 [NASA-CASE-XNP-02723] c 07 N70-41680
 Radar antenna system for acquisition and tracking Patent
 [NASA-CASE-XMS-09610] c 07 N71-24625
 Acquisition and tracking system for optical radar
 [NASA-CASE-MFS-20125] c 16 N72-13437
 Synthetic aperture radar target simulator
 [NASA-CASE-NPO-15024-1] c 32 N84-27951
- TRACKING STATIONS**
 Optical monitor panel Patent
 [NASA-CASE-XKS-03509] c 14 N71-23175
 Simultaneous acquisition of tracking data from two stations
 [NASA-CASE-NPO-13292-1] c 32 N75-15854
- TRACTION**
 Articulated suspension system
 [NASA-CASE-NPO-17354-1-CU] c 37 N90-17153
- TRAFFIC CONTROL**
 Traffic survey system --- using optical scanners
 [NASA-CASE-MFS-22631-1] c 66 N76-19888
- TRAILERS**
 Low-drag ground vehicle particularly suited for use in safely transporting livestock
 [NASA-CASE-FRC-11058-1] c 85 N82-33288
- TRAILING EDGES**
 Serrated trailing edges for improving lift and drag characteristics of lifting surfaces
 [NASA-CASE-LAR-13870-1] c 05 N90-15094
- TRAILING-EDGE FLAPS**
 Double hinged flap Patent
 [NASA-CASE-XLA-01290] c 02 N70-42016
 Variable area exhaust nozzle
 [NASA-CASE-LEW-12378-1] c 07 N79-14097
- TRAINING DEVICES**
 Visual accommodation trainer-tester
 [NASA-CASE-ARC-11426-1] c 09 N84-12193
- TRAINING SIMULATORS**
 Mechanical simulator of low gravity conditions Patent
 [NASA-CASE-MFS-10555] c 11 N71-19494
 Subgravity simulator Patent
 [NASA-CASE-XMS-04798] c 11 N71-21474
 Kinesthetic control simulator --- for pilot training
 [NASA-CASE-LAR-10276-1] c 09 N75-15662
- TRAJECTORY ANALYSIS**
 Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
 [NASA-CASE-XNP-00708] c 14 N70-35394
 Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent
 [NASA-CASE-XAC-08494] c 30 N71-15990
- TRAJECTORY CONTROL**
 Trajectory-correction propulsion system Patent
 [NASA-CASE-XNP-01104] c 28 N70-39931
 Technique for control of free-flight rocket vehicles Patent
 [NASA-CASE-XLA-00937] c 31 N71-17691
 Apparatus for automatically stabilizing the attitude of a nonrigid vehicle
 [NASA-CASE-ARC-10134] c 30 N72-17873
- TRANSDUCERS**
 Pressure variable capacitor
 [NASA-CASE-XNP-09752] c 14 N69-21541
 Bootstrap unloader Patent
 [NASA-CASE-XNP-09768] c 09 N71-12516
 Vibrating structure displacement measuring instrument Patent
 [NASA-CASE-XLA-03135] c 32 N71-16428
 Contour surveying system Patent
 [NASA-CASE-XLA-08646] c 14 N71-17586
 Rotary bead dropper and selector for testing micrometeorite detectors Patent
 [NASA-CASE-XGS-03304] c 09 N71-22988
 Self-calibrating displacement transducer Patent
 [NASA-CASE-XLA-00781] c 09 N71-22999
 Extensometer frame
 [NASA-CASE-XLA-10322] c 15 N72-17452
 Split range transducer
 [NASA-CASE-XLA-11189] c 10 N72-20222
 Pulsed excitation voltage circuit for transducers
 [NASA-CASE-FRC-10036] c 09 N72-22200
 Magnifying scratch gage force transducer
 [NASA-CASE-LAR-10496-1] c 14 N72-22437
 Intruder detection system
 [NASA-CASE-ARC-10097-2] c 07 N73-25160
 Acoustical transducer calibrating system and apparatus
 [NASA-CASE-FRC-10060-1] c 14 N73-27379
 Demodulator for carrier transducers
 [NASA-CASE-NUC-10107-1] c 33 N74-17930
 LC-oscillator with automatic stabilized amplitude via bias current control --- power supply circuit for transducers
 [NASA-CASE-MFS-21698-1] c 33 N74-26732
 Arterial pulse wave pressure transducer
 [NASA-CASE-GSC-11531-1] c 52 N74-27566
 Diode-quad bridge circuit means
 [NASA-CASE-ARC-10364-3] c 33 N75-19520
 Subminiature insertable force transducer --- including a strain gage to measure forces in muscles
 [NASA-CASE-NPO-13423-1] c 33 N75-31329
 Self-supporting strain transducer
 [NASA-CASE-LAR-11263-1] c 35 N75-33369
 Miniature muscle displacement transducer
 [NASA-CASE-NPO-13519-1] c 33 N76-19338
 Method and apparatus for nondestructive testing of pressure vessels
 [NASA-CASE-NPO-12142-1] c 38 N76-28563
 Myocardium wall thickness transducer and measuring method
 [NASA-CASE-NPO-13644-1] c 52 N76-29895
 Solar cell angular position transducer
 [NASA-CASE-LAR-11999-1] c 44 N80-18552

- Simultaneous muscle force and displacement transducer
[NASA-CASE-NPO-14212-1] c 52 N80-27072
- Multifunctional transducer
[NASA-CASE-NPO-14329-1] c 52 N81-20703
- Photomechanical transducer
[NASA-CASE-NPO-14363-1] c 39 N81-25400
- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470
- Thin film strain transducer
[NASA-CASE-WLP-10055-1] c 35 N84-28015
- Strain gage calibration
[NASA-CASE-LAR-12743-1] c 35 N84-28019
- Thin film strain transducer --- suitable for in-flight measurement of scientific balloon strain
[NASA-CASE-WLP-10055-2] c 35 N85-21598
- Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1-CU] c 71 N85-29693
- Adjustable mount for electro-optic transducers in an evacuated cryogenic system
[NASA-CASE-LAR-13100-1] c 37 N87-23982
- Single mode levitation and translation
[NASA-CASE-NPO-16675-1-CU] c 71 N88-24241
- Low power consumption current transducer
[NASA-CASE-NPO-16888-1-CU] c 33 N89-29681
- Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391

TRANSFER FUNCTIONS

- Method and apparatus for transfer function simulator for testing complex systems
[NASA-CASE-NPO-15696-1] c 33 N85-34333

TRANSFORMERS

- Signal multiplexer
[NASA-CASE-XGS-01110] c 07 N69-24334
- Insertion loss measuring apparatus having transformer means connected across a pair of bolometers Patent
[NASA-CASE-XNP-01193] c 10 N71-16057
- Saturation current protection apparatus for saturable core transformers Patent
[NASA-CASE-ERC-10075] c 09 N71-24800
- Unsaturation saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
- Electronically resettable fuse Patent
[NASA-CASE-XGS-11177] c 09 N71-27001
- Voltage regulator Patent
[NASA-CASE-ERC-10113] c 09 N71-27053
- Radial heat flux transformer
[NASA-CASE-NPO-10828] c 33 N72-17948
- Saturation current protection apparatus for saturable core transformers
[NASA-CASE-ERC-10075-2] c 09 N72-22196
- Failsafe multiple transformer circuit configuration
[NASA-CASE-NPO-11078] c 09 N72-25262
- Banded transformer cores
[NASA-CASE-NPO-11966-1] c 33 N74-17928
- Solid-state current transformer
[NASA-CASE-MFS-22560-1] c 33 N77-14335
- Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
- Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415
- Three phase power factor controller
[NASA-CASE-MFS-25535-1] c 33 N81-12330
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Low current linearization of magnetic amplifier for dc transducer
[NASA-CASE-NPO-14617-1] c 33 N81-24338
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Non-contacting power transfer device
[NASA-CASE-GSC-12595-1] c 33 N82-24422
- High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146
- TRANSIENT HEATING**
- Thermocouple installation
[NASA-CASE-NPO-13540-1] c 35 N77-14409
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
- Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] c 35 N85-34373
- TRANSIENT LOADS**
- Deployable solar cell array
[NASA-CASE-NPO-10883] c 31 N72-22874

TRANSISTOR AMPLIFIERS

- Apparatus for overcurrent protection of a push-pull amplifier Patent
[NASA-CASE-MSC-12033-1] c 09 N71-13531

TRANSISTOR CIRCUITS

- Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Pulse counting circuit which simultaneously indicates the occurrence of the nth pulse Patent
[NASA-CASE-XMF-00906] c 09 N70-41655
- Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675
- Switching circuit employing regeneratively connected complementary transistors Patent
[NASA-CASE-XNP-02654] c 10 N70-42032
- High voltage transistor circuit Patent
[NASA-CASE-XNP-06937] c 09 N71-19516
- Complementary regenerative switch Patent
[NASA-CASE-XGS-02751] c 09 N71-23015
- Transistor drive regulator Patent
[NASA-CASE-LEW-10233] c 10 N71-27126
- Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
- Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156
- Ultra-stable oscillator with complementary transistors
[NASA-CASE-GSC-11513-1] c 33 N74-20862
- Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
- Temperature compensated current source
[NASA-CASE-MSC-11235] c 33 N78-17294
- Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
- Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
- TRANSISTORS**
- Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
- Switching circuit Patent
[NASA-CASE-XNP-06505] c 10 N71-24799
- Cascaded complementary pair broadband transistor amplifiers Patent
[NASA-CASE-NPO-10003] c 10 N71-26415
- Fast response low power drain logic circuits
[NASA-CASE-GSC-10878-1] c 10 N72-22236
- Coaxial inverted geometry transistor having buried emitter
[NASA-CASE-ARC-10330-1] c 09 N73-32112
- Four phase logic systems --- including integrated microcircuits
[NASA-CASE-MSC-14240-1] c 33 N75-14957
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- Circuit for automatic load sharing in parallel converter modules
[NASA-CASE-NPO-14056-1] c 33 N79-24257
- Base drive for paralleled inverter systems
[NASA-CASE-NPO-14163-1] c 33 N81-14220
- Four quadrant control circuit for a brushless three-phase dc motor
[NASA-CASE-MFS-28080-1] c 33 N87-21233

TRANSITION FLOW

- Ablation article and method
[NASA-CASE-LAR-10439-1] c 33 N73-27796

TRANSITION TEMPERATURE

- Process for preparing thermoplastic aromatic polyimides
[NASA-CASE-LAR-11828-1] c 27 N78-32261
- Method of producing high T(subc) superconducting NBN films
[NASA-CASE-NPO-16681-1-CU] c 76 N88-24543

TRANSLATIONAL MOTION

- Centrifuge mounted motion simulator Patent
[NASA-CASE-XAC-00399] c 11 N70-34815
- Translating horizontal tail Patent
[NASA-CASE-XLA-08801-1] c 02 N71-11043
- Semi-linear ball bearing Patent
[NASA-CASE-XLA-02809] c 15 N71-22982
- Positioning mechanism
[NASA-CASE-NPO-10679] c 15 N72-21462
- Improved docking alignment system
[NASA-CASE-MSC-21372-1] c 35 N89-12842

TRANSLATORS

- Serial data correlator/code translator
[NASA-CASE-KSC-11025-1] c 32 N83-13323

TRANSLUCENCE

- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMISSION CIRCUITS

- Beam forming network
[NASA-CASE-NPO-15743-1] c 32 N85-29118

TRANSMISSION EFFICIENCY

- Microwave power transmission system wherein level of transmitted power is controlled by reflections from receiver
[NASA-CASE-MFS-21470-1] c 44 N74-19870
- Linear phase demodulator including a phase locked loop with auxiliary feedback loop
[NASA-CASE-GSC-12018-1] c 33 N77-14334
- Apparatus and method for characterizing the transmission efficiency of a mass spectrometer
[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794

TRANSMISSION LINES

- Validation device for spacecraft checkout equipment Patent
[NASA-CASE-XKS-10543] c 07 N71-26292
- Collapsible antenna boom and transmission line Patent
[NASA-CASE-MFS-20068] c 07 N71-27191
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
- Phase control circuits using frequency multiplications for phased array antennas
[NASA-CASE-ERC-10285] c 10 N73-16206
- Phase protection system for ac power lines
[NASA-CASE-MSC-17832-1] c 33 N74-14956
- System for stabilizing cable phase delay utilizing a coaxial cable under pressure
[NASA-CASE-NPO-13138-1] c 33 N74-17927
- Telephone multiline signaling using common signal pair
[NASA-CASE-KSC-11023-1] c 32 N79-23310
- System for automatically switching transformer coupled lines
[NASA-CASE-MSC-16697-1] c 33 N79-28415

TRANSMISSION LOSS

- Low-loss, high-isolation, fiber-optic isolator
[NASA-CASE-NPO-17207-1-CU] c 74 N88-25304

TRANSMISSIONS (MACHINE ELEMENTS)

- Compensating linkage for main rotor control
[NASA-CASE-LAR-11797-1] c 05 N81-19087
- Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] c 37 N84-28084
- Magnetic drive coupling
[NASA-CASE-MSC-21171-1] c 37 N88-23973

TRANSMISSIVITY

- Process of making medical clip
[NASA-CASE-LAR-12650-2] c 52 N84-28389

TRANSMITTANCE

- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750

TRANSMITTER RECEIVERS

- Integrated thermoelectric generator/space antenna combination
[NASA-CASE-XER-09521] c 09 N72-12136
- Location identification system
[NASA-CASE-ERC-10324] c 07 N72-25173
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

TRANSMITTERS

- Temperature telemetric transmitter Patent
[NASA-CASE-NPO-10649] c 07 N71-24840
- Two carrier communication system with single transmitter
[NASA-CASE-NPO-11548] c 07 N73-26118
- Miniature multichannel biotelemetry system
[NASA-CASE-NPO-13065-1] c 52 N74-26625
- Digital transmitter for data bus communications system
[NASA-CASE-MSC-14558-1] c 32 N75-21486
- Apparatus for endoscopic examination --- analysis of the propulsion system configuration and transmitter
[NASA-CASE-NPO-14092-1] c 52 N80-16725
- Single frequency multitransmitter telemetry
[NASA-CASE-LAR-13006-1] c 17 N87-16863

TRANSONIC SPEED

- Leading edge curvature based on convective heating Patent
[NASA-CASE-XLA-01486] c 01 N71-23497

TRANSONIC WIND TUNNELS

- Wind tunnel test section
[NASA-CASE-MFS-20509] c 11 N72-17183
- Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558

TRANSPARENCY

- Helmet assembly and latch means therefor Patent
[NASA-CASE-XMS-04935] c 05 N71-11190
- Method and apparatus for producing an image from a transparent object
[NASA-CASE-GSC-11989-1] c 74 N77-28932

- Method of fabricating a photovoltaic module of a substantially transparent construction
[NASA-CASE-NPO-14303-1] c 44 N80-18550
- Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
- Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines
[NASA-CASE-LAR-13353-1] c 27 N86-29039
- Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727
- Procedure to prepare transparent silica gels
[NASA-CASE-LAR-13476-1-CU] c 76 N87-29360
- Method for investigating the formation of crystals in a transparent material
[NASA-CASE-MFS-26008-1-CU] c 76 N88-14835
- TRANSPARATION**
Rocket chamber and method of making
[NASA-CASE-LEW-11118-2] c 20 N76-14191
- TRANSPONDERS**
Dynamic Doppler simulator Patent
[NASA-CASE-XMS-05454-1] c 07 N71-12391
- Method and apparatus for mapping planets
[NASA-CASE-NPO-11001] c 07 N72-21118
- Code regenerative clean-up loop transponder for a mu-type ranging system
[NASA-CASE-NPO-11707] c 07 N73-25161
- Automatic vehicle location system
[NASA-CASE-NPO-11850-1] c 32 N74-12912
- Simultaneous acquisition of tracking data from two stations
[NASA-CASE-NPO-13292-1] c 32 N75-15854
- Automatic transponder --- measurement of the internal delay time of a transponder
[NASA-CASE-GSC-12075-1] c 32 N77-31350
- Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] c 04 N86-19304
- TRANSPORTATION**
Supporting and protecting device Patent
[NASA-CASE-XMF-00580] c 11 N70-35383
- Shuttle car loading system
[NASA-CASE-NPO-15949-1] c 85 N85-34722
- TRANSVERSE ACCELERATION**
Rim inertial measuring system
[NASA-CASE-LAR-12052-1] c 18 N81-29152
- TRAPPED PARTICLES**
Method and apparatus for determining time, direction and composition of impacting space particles
[NASA-CASE-LAR-13392-1-CU] c 19 N90-10132
- TRAPS**
Deep trap, laser activated image converting system
[NASA-CASE-NPO-13131-1] c 36 N75-19652
- TRAVELING WAVE AMPLIFIERS**
Serrrodyne frequency converter re-entrant amplifier system Patent
[NASA-CASE-XGS-01022] c 07 N71-16088
- Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility
[NASA-CASE-HQN-10069] c 33 N75-27251
- Resonant isolator for maser amplifier
[NASA-CASE-NPO-15201-1] c 36 N83-35350
- Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] c 33 N84-16452
- TRAVELING WAVE MASERS**
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
- High-gain, broadband traveling wave maser Patent
[NASA-CASE-NPO-10548] c 16 N71-24831
- Independent gain and bandwidth control of a traveling wave maser
[NASA-CASE-NPO-13801-1] c 36 N78-18410
- TRAVELING WAVE TUBES**
Segmented superconducting magnet for a broadband traveling wave maser Patent
[NASA-CASE-XGS-10518] c 16 N71-28554
- Traveling wave tube circuit
[NASA-CASE-LEW-12013-1] c 33 N79-10339
- Multistage depressed collector for dual mode operation --- for microwave transmitting tubes
[NASA-CASE-LEW-13282-1] c 33 N82-24415
- Linearized traveling wave amplifier with hard limiter characteristics
[NASA-CASE-LEW-13981-2] c 33 N86-21742
- Miniature traveling wave tube and method of making
[NASA-CASE-LEW-14520-1] c 33 N88-23936
- TRAVELING WAVES**
Maser for frequencies in the 7-20 GHz range
[NASA-CASE-NPO-11437] c 16 N72-28521
- TREADMILLS**
Tread drum for animals --- having an electrical shock station
[NASA-CASE-ARC-10917-1] c 51 N78-27733
- TREADS**
Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034
- TRIGGER CIRCUITS**
Ring counter
[NASA-CASE-XGS-03095] c 09 N69-27463
- Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913
- Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
- Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent
[NASA-CASE-ARC-10137-1] c 09 N71-28468
- SCR lamp driver
[NASA-CASE-GSC-10221-1] c 09 N72-23171
- Rapidly pulsed, high intensity, incoherent light source
[NASA-CASE-XLE-2529-3] c 33 N74-20859
- Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] c 33 N84-16455
- TRIGONOMETRY**
Trigonometric vehicle guidance assembly which aligns the three perpendicular axes of two three-axes systems Patent
[NASA-CASE-XMF-00684] c 21 N71-21688
- TRIMERS**
Trifunctional alcohol
[NASA-CASE-NPO-10714] c 06 N69-31244
- Trimerization of aromatic nitriles
[NASA-CASE-LEW-12053-1] c 27 N78-15276
- Catalytic trimerization of aromatic nitriles and triaryl-s-triazine ring cross-linked high temperature resistant polymers and copolymers made thereby
[NASA-CASE-LEW-12053-2] c 27 N79-28307
- TRIODES**
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
- Textured carbon surfaces on copper by sputtering
[NASA-CASE-LEW-14130-1] c 31 N86-32587
- TRITIUM**
Method for determining the state of charge of batteries by the use of tracers Patent
[NASA-CASE-XNP-01464] c 03 N71-10728
- TROPOPAUSE**
CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
- TRUCKS**
Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- TRUSSES**
Low mass truss structure
[NASA-CASE-LAR-10546-1] c 11 N72-25287
- Lightweight structural columns --- space erectable trusses
[NASA-CASE-LAR-12095-1] c 31 N81-25258
- Structural members, method and apparatus
[NASA-CASE-MSC-16217-1] c 31 N81-27323
- Sequentially deployable maneuverable tetrahedral beam
[NASA-CASE-LAR-13098-1] c 31 N86-19479
- Shuttle-launch triangular space station
[NASA-CASE-MSC-20676-1] c 18 N86-24729
- Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] c 37 N86-25789
- Deployable M-braced truss structure
[NASA-CASE-LAR-13081-1] c 37 N86-32737
- Synchronously deployable double fold beam and planar truss structure
[NASA-CASE-LAR-13490-1] c 18 N87-14413
- Deployable geodesic truss structure
[NASA-CASE-LAR-13113-1] c 31 N87-25492
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Mobile remote manipulator system for a tetrahedral truss
[NASA-CASE-MSC-20985-1] c 18 N88-26398
- Collet lock joint for space station truss
[NASA-CASE-MSC-21207-1] c 37 N88-29180
- Clevis joint for deployable space structures
[NASA-CASE-LAR-13898-1] c 37 N88-30130
- TUBE GRIDS**
Method for fabricating solar cells having integrated collector grids
[NASA-CASE-LEW-12819-2] c 44 N79-18444
- TUBE HEAT EXCHANGERS**
Electrothermal rockets having improved heat exchangers Patent
[NASA-CASE-XLE-01783] c 28 N70-34175
- Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
- Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- Solar energy receiver for a Stirling engine
[NASA-CASE-NPO-14619-1] c 44 N81-17518
- TUBES**
Method of making tubes Patent
[NASA-CASE-XGS-04175] c 15 N71-18579
- Tube sealing device Patent
[NASA-CASE-NPO-10431] c 15 N71-29132
- TUMBLING MOTION**
Tumbler system to provide random motion
[NASA-CASE-XGS-02437] c 15 N69-21472
- TUMORS**
Liquid cooled brassiere and method of diagnosing malignant tumors therewith
[NASA-CASE-ARC-11007-1] c 52 N77-14736
- TUNABLE LASERS**
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Portable remote laser sensor for methane leak detection
[NASA-CASE-NPO-15790-1] c 36 N85-21631
- Digital control of diode laser for atmospheric spectroscopy
[NASA-CASE-NPO-16000-1] c 36 N85-29264
- Method and means for generation of tunable laser sidebands in the far-infrared region
[NASA-CASE-NPO-16497-1-CU] c 36 N87-25567
- Isotope separation using tuned laser and electron beam
[NASA-CASE-NPO-16907-1-CU] c 25 N88-24732
- TUNGSTEN**
Bonding thermoelectric elements to nonmagnetic refractory metal electrodes
[NASA-CASE-XGS-04554] c 15 N69-39786
- Method of producing porous tungsten ionizers for ion rocket engines Patent
[NASA-CASE-XLE-00455] c 28 N70-38197
- Small plasma probe Patent
[NASA-CASE-XLE-02578] c 25 N71-20747
- Fabrication of controlled-porosity metals Patent
[NASA-CASE-XNP-04339] c 17 N71-29137
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Nuclear thermionic converter--- tungsten-thorium oxide rods
[NASA-CASE-NPO-13121-1] c 73 N77-18891
- TUNGSTEN ALLOYS**
Evaporant holder
[NASA-CASE-XLA-03105] c 15 N69-27483
- Cobalt-base alloy
[NASA-CASE-LEW-10436-1] c 17 N73-32415
- Directionally solidified eutectic gamma plus beta nickel-base superalloys
[NASA-CASE-LEW-12906-1] c 26 N77-32279
- TUNING**
Active tuned circuit
[NASA-CASE-GSC-11340-1] c 10 N72-33230
- Magnetically actuated tuning method for Gunn oscillators
[NASA-CASE-NPO-12106] c 09 N73-15235
- Tuned analog network
[NASA-CASE-GSC-12650-1] c 33 N84-14421
- Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] c 36 N84-22943
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Precision tunable resonant microwave cavity
[NASA-CASE-LEW-13935-1] c 33 N87-21234
- Programmable electronic synthesized capacitance
[NASA-CASE-GSC-12961-1] c 33 N87-22895
- Tailorable infrared sensing device with strain layer superlattice structure
[NASA-CASE-NPO-16607-1-CU] c 76 N88-14836
- Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
- TUNNEL DIODES**
Low power drain semi-conductor circuit
[NASA-CASE-XGS-04999] c 09 N69-24317
- High band gap 2-6 and 3-5 tunneling junctions for silicon multijunction solar cells
[NASA-CASE-NPO-16526-1CU] c 44 N87-17399
- TUNNELING (EXCAVATION)**
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272
- TUNNELS**
Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- Smart tunnel: Docking mechanism
[NASA-CASE-MSC-21360-1] c 18 N89-25263
- TURBINE BLADES**
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226

- Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
High-temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
External liquid-spray cooling of turbine blades Patent
[NASA-CASE-XLE-00037] c 28 N70-33372
Liquid spray cooling method Patent
[NASA-CASE-XLE-00027] c 33 N71-29152
Welding blades to rotors
[NASA-CASE-LEW-10533-1] c 15 N73-28515
Leading edge protection for composite blades
[NASA-CASE-LEW-12550-1] c 24 N77-19170
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-2] c 37 N82-26674
Method of protecting a surface with a silicon-slurry/aluminide coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
- TURBINE ENGINES**
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631
Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
Composite seal for turbomachinery --- backings for turbine engine shrouds
[NASA-CASE-LEW-12131-1] c 37 N79-18318
Self stabilizing sonic inlet
[NASA-CASE-LEW-11890-1] c 05 N79-24976
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658
- TURBINE PUMPS**
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Cryogenic cooling system Patent
[NASA-CASE-NPO-10467] c 23 N71-26654
Supersonic-combustion rocket
[NASA-CASE-LEW-11058-1] c 20 N74-13502
Supercharged topping rocket propellant feed system
[NASA-CASE-XLE-02062-1] c 20 N80-14188
Rotor self-lubricating axial stop
[NASA-CASE-MFS-28273-1] c 37 N88-23974
- TURBINE WHEELS**
Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Blade retainer assembly
[NASA-CASE-LEW-12608-1] c 07 N77-27116
- TURBINES**
Rotating shaft seal Patent
[NASA-CASE-XNP-02862-1] c 15 N71-26294
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
- TURBOCOMPRESSORS**
Multistage multiple-reentry turbine Patent
[NASA-CASE-XLE-00170] c 15 N70-36412
Apparatus and method for reducing thermal stress in a turbine rotor
[NASA-CASE-LEW-12232-1] c 07 N79-10057
Combustor liner construction
[NASA-CASE-LEW-14035-1] c 07 N84-24577
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] c 37 N84-33808
- TURBOFAN ENGINES**
Supersonic fan blading --- noise reduction in turbofan engines
[NASA-CASE-LEW-11402-1] c 07 N74-28226
Noise suppressor --- for turbofan engine by incorporating annular acoustically porous elements in exhaust and inlet ducts
[NASA-CASE-LAR-11141-1] c 07 N74-32418
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Method and apparatus for rapid thrust increases in a turbofan engine
[NASA-CASE-LEW-12971-1] c 07 N80-18039
Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116
Thrust reverser for a long duct fan engine --- for turbofan engines
[NASA-CASE-LEW-13199-1] c 07 N82-26293
Noise suppressor for turbo fan jet engines
[NASA-CASE-ARC-10812-1] c 07 N83-33884

TURBOFANS

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
Reverse pitch fan with divided splitter
[NASA-CASE-LEW-12760-1] c 07 N77-17059

TURBOGENERATORS

- Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

TURBOJET ENGINE CONTROL

- Integrated control system for a gas turbine engine
[NASA-CASE-LEW-12594-2] c 07 N81-19116

TURBOJET ENGINES

- Telescoping-spike supersonic inlet for aircraft engines Patent
[NASA-CASE-XLE-00005] c 28 N70-39899
Gas turbine combustion apparatus Patent
[NASA-CASE-XLE-103477-1] c 28 N71-20330
Reduction of nitric oxide emissions from a combustor
[NASA-CASE-ARC-10814-2] c 07 N80-26298

TURBOMACHINE BLADES

- Platform for a swing root turbomachinery blade
[NASA-CASE-LEW-12312-1] c 07 N77-32148
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-2] c 37 N80-26658

TURBOMACHINERY

- Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
Fully plasma-sprayed compliant backed ceramic turbine seal
[NASA-CASE-LEW-13268-1] c 27 N82-29453
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] c 37 N84-22957
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018
Compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] c 37 N86-19606
Damping seal for turbomachinery
[NASA-CASE-MFS-25842-2] c 37 N86-20788
Turbomachinery shaft insert
[NASA-CASE-MFS-28345-2] c 37 N89-28842

TURBOSHAFTS

- Optical torqueometer Patent
[NASA-CASE-XLE-00503] c 14 N70-34818
High speed, self-acting shaft seal --- for use in turbine engines
[NASA-CASE-LEW-11274-1] c 37 N75-21631

TURBULENCE METERS

- Hot foil transducer skin friction sensor
[NASA-CASE-LAR-12321-1] c 35 N82-24470

TURBULENT BOUNDARY LAYER

- Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235
Method for laminar boundary layer transition visualization in flight
[NASA-CASE-LAR-13554-1] c 02 N89-12551

TURBULENT FLOW

- Exhaust flow deflector --- for ducted gas flow
[NASA-CASE-LAR-11570-1] c 34 N76-18364
System for measuring Reynolds in a turbulently flowing fluid --- signal processing
[NASA-CASE-ARC-10755-2] c 34 N76-27517
System for measuring three fluctuating velocity components in a turbulently flowing fluid
[NASA-CASE-ARC-10974-1] c 34 N77-27345
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Active control of boundary layer transition and turbulence
[NASA-CASE-LAR-13532-1] c 34 N86-26575
- TURNSTILE ANTENNAS**
Method and means for damping nutation in a satellite Patent
[NASA-CASE-XMF-00442] c 31 N71-10747
Broadband modified turnstile antenna Patent
[NASA-CASE-MSC-12209] c 09 N71-24842
Turnstile slot antenna
[NASA-CASE-GSC-11428-1] c 32 N74-20864
Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372

TURRET

- Electron beam tube containing a multiple cathode array employing indexing means for cathode substitution Patent
[NASA-CASE-NPO-10625] c 09 N71-26182

TWISTING

- Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279

TWO BODY PROBLEM

- Instrument for measuring potentials on two dimensional electric field plots Patent
[NASA-CASE-XLA-08493] c 10 N71-19421

TWO DIMENSIONAL BODIES

- Two-dimensional radiant energy array computers and computing devices
[NASA-CASE-GSC-11839-1] c 60 N77-14751

TWO PHASE FLOW

- Two-step rocket engine bipropellant valve Patent
[NASA-CASE-XMS-04890-1] c 15 N70-22192
Booster tank system Patent
[NASA-CASE-MSC-12390] c 27 N71-29155
Two phase flow system with discrete impinging two-phase jets
[NASA-CASE-NPO-11556] c 12 N72-25292
Method and turbine for extracting kinetic energy from a stream of two-phase fluid
[NASA-CASE-NPO-14130-1] c 34 N79-20335
Method for driving two-phase turbines with enhanced efficiency
[NASA-CASE-NPO-15037-2] c 37 N85-29282
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950
Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-2] c 34 N88-23958

TYPEWRITERS

- Guide for a typewriter
[NASA-CASE-MFS-15218-1] c 37 N77-19457

U**U BENDS**

- Technique of elbow bending small jacketed transfer lines Patent
[NASA-CASE-XNP-10475] c 15 N71-24679
Method for distillation of liquids
[NASA-CASE-XNP-08124-2] c 06 N73-13129

ULCERS

- Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-2] c 52 N81-14613
Indomethacin-antihistamine combination for gastric ulceration control
[NASA-CASE-ARC-11118-1] c 52 N81-29764

ULLAGE

- Penetrating radiation system for detecting the amount of liquid in a tank Patent
[NASA-CASE-MSC-12280] c 27 N71-16348

ULTRAHIGH FREQUENCIES

- Turnstile and flared cone UHF antenna
[NASA-CASE-LAR-10970-1] c 33 N76-14372
Dual band combiner for horn antenna
[NASA-CASE-NPO-14519-1] c 32 N80-23524

ULTRAHIGH VACUUM

- Method of lubricating rolling element bearings Patent
[NASA-CASE-XLE-09527] c 15 N71-17688
Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
Ultrahigh vacuum gauge having two collector electrodes
[NASA-CASE-LAR-02743] c 14 N73-32324
In situ transfer standard for ultrahigh vacuum gauge calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] c 37 N85-29286

ULTRAPURE METALS

- Apparatus for production of ultrapure amorphous metals utilizing acoustic cooling
[NASA-CASE-NPO-15658-1] c 26 N86-32551

ULTRASONIC AGITATION

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514

ULTRASONIC CLEANING

- Acoustic tooth cleaner
[NASA-CASE-LAR-12471-1] c 52 N82-29862

ULTRASONIC FLAW DETECTION

- Length mode piezoelectric ultrasonic transducer for inspection of solid objects
[NASA-CASE-MSC-19672-1] c 38 N79-14398
Two-dimensional scanner apparatus --- flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] c 35 N84-22928
Ultrasonic angle beam standard reflector --- ultrasonic nondestructive inspection
[NASA-CASE-LAR-13153-1] c 71 N86-21276
Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC RADIATION

- Ultrasonic biomedical measuring and recording apparatus --- for recording motion of internal organs such as heart valves
[NASA-CASE-ARC-10597-1] c 52 N74-20726
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-1] c 52 N76-33835
- Biomedical ultrasonoscope
[NASA-CASE-ARC-10994-2] c 52 N79-26771
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Acoustic radiation stress measurement
[NASA-CASE-LAR-13440-1] c 71 N87-21653

ULTRASONIC SCANNERS

- Cutting head for ultrasonic lithotripsy
[NASA-CASE-GSC-12944-1] c 52 N86-19885

ULTRASONIC TESTS

- Ultrasonic scanner for radial and flat panels
[NASA-CASE-MFS-20335-1] c 35 N74-10415
- Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
- Method and apparatus for nondestructive testing --- using high frequency arc discharges
[NASA-CASE-MFS-21233-1] c 38 N74-15395
- CW ultrasonic bolt tensioning monitor
[NASA-CASE-LAR-12016-1] c 39 N78-15512
- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941
- Ultrasonic method and apparatus for determining crack opening load
[NASA-CASE-LAR-13889-1] c 39 N88-30160

ULTRASONIC WAVE TRANSDUCERS

- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Ultrasonic bone densitometer
[NASA-CASE-MFS-20994-1] c 35 N75-12271
- Reference apparatus for medical ultrasonic transducer
[NASA-CASE-ARC-10753-1] c 54 N75-27760
- Ultrasonic calibration device --- for producing changes in acoustic attenuation and phase velocity
[NASA-CASE-LAR-11435-1] c 35 N76-15432
- Coupling apparatus for ultrasonic medical diagnostic system
[NASA-CASE-NPO-13935-1] c 52 N79-14751
- CDS solid state phase insensitive ultrasonic transducer --- annealing cadmium sulfide crystals
[NASA-CASE-LAR-12304-1] c 35 N80-20559
- Liquid-immersible electrostatic ultrasonic transducer
[NASA-CASE-LAR-12465-1] c 33 N82-26572
- Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] c 35 N84-22932
- Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407

ULTRASONIC WELDING

- Ultrasonically bonded wave assembly
[NASA-CASE-NPO-13360-1] c 37 N75-25185

ULTRASONICS

- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- Pseudo continuous wave instrument --- ultrasonics
[NASA-CASE-LAR-12260-1] c 35 N79-10390
- Dual differential interferometer
[NASA-CASE-LAR-12966-1] c 35 N85-30282
- Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] c 52 N85-30618
- Ultrasonic depth gauge for liquids under high pressure
[NASA-CASE-LAR-13300-1-CU] c 35 N89-14407
- Apparatus for imaging deep arterial and coronary lesions
[NASA-CASE-NPO-17439-1-CU] c 52 N90-16391
- Method and apparatus for characterizing reflected ultrasonic pulses
[NASA-CASE-LAR-13966-1] c 71 N90-17408

ULTRAVIOLET FILTERS

- Ultraviolet filter
[NASA-CASE-XNP-02340] c 23 N69-24332
- Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

ULTRAVIOLET LASERS

- Stabilization of He2(a 3 Sigma u+ molecules in liquid helium by optical pumping for vacuum UV laser 6
[NASA-CASE-NPO-13993-1] c 72 N79-13826

ULTRAVIOLET RADIATION

- Alkali-metal silicate protective coating
[NASA-CASE-XGS-04119] c 18 N69-39979
- Ultraviolet resonance lamp Patent
[NASA-CASE-ARC-10030] c 09 N71-12521

- Leak detector wherein a probe is monitored with ultraviolet radiation Patent
[NASA-CASE-ERC-10034] c 15 N71-24896
- Phototropic composition of matter
[NASA-CASE-XGS-03736] c 14 N72-22443
- Transmitting and reflecting diffuser --- for ultraviolet light
[NASA-CASE-LAR-10385-2] c 70 N74-13436
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-1] c 27 N74-21156
- Light shield and cooling apparatus --- high intensity ultraviolet lamp
[NASA-CASE-LAR-10089-1] c 34 N74-23066
- Flame detector operable in presence of proton radiation
[NASA-CASE-MFS-21577-1] c 19 N74-29410
- Method and apparatus for generating coherent radiation in the ultra-violet region and above by use of distributed feedback
[NASA-CASE-NPO-13346-1] c 36 N76-29575
- Ultraviolet and thermally stable polymer compositions
[NASA-CASE-ARC-10592-2] c 27 N76-32315
- Vitro-violet process for producing flame resistant polyamides and products produced thereby --- protective clothing for high oxygen environments
[NASA-CASE-MSC-16074-1] c 27 N80-26446

ULTRAVIOLET REFLECTION

- Alkali metal silicate protective coating Patent
[NASA-CASE-XGS-04799] c 18 N71-24183
- Ultraviolet light reflective coating
[NASA-CASE-GSC-11786-1] c 24 N76-24363
- Transmitting and reflecting diffuser --- using ultraviolet grade fused silica coatings
[NASA-CASE-LAR-10385-3] c 74 N78-15879

ULTRAVIOLET SPECTRA

- Ultraviolet atomic emission detector
[NASA-CASE-HQN-10756-1] c 14 N72-25428

ULTRAVIOLET SPECTROMETERS

- Concave grating spectrometer Patent
[NASA-CASE-XGS-01036] c 14 N70-40003
- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699

UMBILICAL CONNECTORS

- Umbilical separator for rockets Patent
[NASA-CASE-XNP-00425] c 11 N70-38202
- Umbilical disconnect Patent
[NASA-CASE-XLA-00711] c 03 N71-12258
- Remote controlled tubular disconnect Patent
[NASA-CASE-XLA-01396] c 03 N71-12259
- Serpentuator Patent
[NASA-CASE-XMF-05344] c 31 N71-16345
- Breakaway connector
[NASA-CASE-NPO-11140] c 15 N72-17455
- Quick disconnect coupling
[NASA-CASE-NPO-11202] c 15 N72-25450
- Deployable flexible tunnel
[NASA-CASE-MFS-22636-1] c 37 N76-22540
- High acceleration cable deployment system
[NASA-CASE-ARC-11256-1] c 15 N82-24272

UMBILICAL TOWERS

- Emergency escape system Patent
[NASA-CASE-XKS-02342] c 05 N71-11199

UNDERWATER ENGINEERING

- Ejectable underwater sound source recovery assembly
[NASA-CASE-LAR-10595-1] c 35 N74-16135
- Underwater seismic source --- for petroleum exploration
[NASA-CASE-NPO-14255-1] c 46 N79-23555

UNDERWATER TESTS

- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332] c 05 N72-20097
- Underwater space suit pressure control regulator
[NASA-CASE-MFS-20332-2] c 05 N73-25125

UNIFORM FLOW

- Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969

UNIONS (CONNECTORS)

- Beam connector apparatus and assembly
[NASA-CASE-MFS-25134-1] c 31 N83-31895
- Preloaded space structural coupling joints
[NASA-CASE-LAR-13489-1] c 18 N87-27713
- Mechanized fluid connector and assembly tool system
[NASA-CASE-MSC-21434-1] c 37 N90-17138

UNLOADING

- Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

UNMANNED SPACECRAFT

- Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

UNSATURATION (CHEMISTRY)

- Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] c 27 N85-29043

UP-CONVERTERS

- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192

UPPER ATMOSPHERE

- Telespectrograph Patent
[NASA-CASE-XLA-03273] c 14 N71-18699
- Apparatus for sampling particulates in gases
[NASA-CASE-HQN-10037-1] c 14 N73-27376
- Rocket having barium release system to create ion clouds in the upper atmosphere
[NASA-CASE-LAR-10670-2] c 15 N74-27360
- Microwave limb sounder --- measuring trace gases in the upper atmosphere
[NASA-CASE-NPO-14544-1] c 46 N82-12685

URANIUM 235

- Isotope separation using metallic vapor lasers
[NASA-CASE-NPO-13550-1] c 36 N77-26477

UREAS

- Aldehyde-containing urea-absorbing polysaccharides
[NASA-CASE-NPO-13620-1] c 27 N77-30236
- Dialysis system --- using ion exchange resin membranes permeable to urea molecules
[NASA-CASE-NPO-14101-1] c 52 N80-14687
- Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452

URETHANES

- Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

URINALYSIS

- Automated fluid chemical analyzer Patent
[NASA-CASE-XNP-09451] c 06 N71-26754
- Method of detecting and counting bacteria in body fluids
[NASA-CASE-GSC-11092-2] c 04 N73-27052
- Automatic instrument for chemical processing to detect microorganism in biological samples by measuring light reactions
[NASA-CASE-GSC-11169-2] c 05 N73-32011
- Determination of antimicrobial susceptibilities on infected urines without isolation
[NASA-CASE-GSC-12046-1] c 52 N79-14750

URINATION

- Open type urine receptacle
[NASA-CASE-MSC-12324-1] c 05 N72-22093
- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711
- Urine collection apparatus --- feminine hygiene
[NASA-CASE-MSC-18381-1] c 52 N81-28740

URINE

- Rapid quantification of an internal property --- ultrasonic determination of bladder urine quantity
[NASA-CASE-LAR-13689-1-NP] c 35 N87-23941

UROLOGY

- Urine collection device
[NASA-CASE-MSC-16433-1] c 52 N81-24711

UTERUS

- Cervix-to-rectum measuring device in a radiation applicator for use in the treatment of cervical cancer
[NASA-CASE-GSC-12081-2] c 52 N82-22875

V

V GROOVES

- Vee-notching device --- with adjustable carriage
[NASA-CASE-MFS-20730-1] c 39 N74-13131
- Complementary DMOS-VMOS integrated circuit structure
[NASA-CASE-GSC-12190-1] c 33 N79-12321
- High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177

VACANCIES (CRYSTAL DEFECTS)

- Bi-metallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265

VACUUM

- Depositing semiconductor films utilizing a thermal gradient
[NASA-CASE-XKS-04614] c 15 N69-21460
- Superconducting magnet Patent
[NASA-CASE-XNP-06503] c 23 N71-29049
- Thermocouples of molybdenum and iridium alloys for more stable vacuum-high temperature performance
[NASA-CASE-LEW-12174-2] c 35 N79-14346
- Bakeable McLeod gauge
[NASA-CASE-XGS-01293-1] c 35 N79-33450
- Spray applicator for spraying coatings and other fluids in space
[NASA-CASE-MSC-18852-1] c 37 N85-29283

VACUUM APPARATUS

- Null-type vacuum microbalance Patent
[NASA-CASE-XAC-00472] c 15 N70-40180
- Evacuation port seal Patent
[NASA-CASE-XMF-03290] c 15 N71-23256
- Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607
- Trap for preventing diffusion pump backstreaming
[NASA-CASE-GSC-10518-1] c 15 N72-22489

- Inductance device with vacuum insulation
[NASA-CASE-LEW-10330-1] c 09 N72-27226
- Apparatus for producing metal powders
[NASA-CASE-XLE-06461-2] c 17 N72-28535
- Vacuum probe surface sampler
[NASA-CASE-LAR-10623-1] c 14 N73-30395
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554
- Safety shield for vacuum/pressure chamber viewing port
[NASA-CASE-GSC-12513-1] c 31 N81-19343
- Head for high speed spinner having a vacuum chuck --- holding silicon dioxide chips for etching
[NASA-CASE-NPO-15227-1] c 37 N81-33482
- Static continuous electrophoresis device
[NASA-CASE-MFS-25306-1] c 25 N83-13187
- Method and apparatus for supercooling and solidifying substances
[NASA-CASE-MFS-25242-1] c 35 N83-29650
- Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679
- Low temperature storage container for transporting perishables to space station
[NASA-CASE-MFS-28248-1] c 31 N88-24817
- VACUUM CHAMBERS**
- High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
- Split welding chamber Patent
[NASA-CASE-LEW-11531] c 15 N71-14932
- Space environmental work simulator Patent
[NASA-CASE-XMF-07488] c 11 N71-18773
- Pressure monitoring with a plurality of ionization gauges controlled at a central location Patent
[NASA-CASE-XLE-00787] c 14 N71-21090
- Device for measuring light scattering wherein the measuring beam is successively reflected between a pair of parallel reflectors Patent
[NASA-CASE-XER-11203] c 14 N71-28994
- Cryogenic feedthrough
[NASA-CASE-LAR-10031] c 15 N72-22484
- Altitude simulation chamber for rocket engine testing
[NASA-CASE-MFS-20620] c 11 N72-27262
- Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Method and apparatus for determining the contents of contained gas samples
[NASA-CASE-GSC-10903-1] c 14 N73-12444
- Test stand system for vacuum chambers
[NASA-CASE-MFS-21362] c 11 N73-20267
- Atomic hydrogen storage --- cryotrapping and magnetic field strength
[NASA-CASE-LEW-12081-2] c 28 N80-20402
- Containerless high temperature calorimeter apparatus
[NASA-CASE-MFS-23923-1] c 35 N81-19426
- Hermetic seal for a shaft
[NASA-CASE-NPO-15115-1] c 37 N82-24493
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
- Sphere forming method and apparatus
[NASA-CASE-NPO-15070-1] c 31 N83-35176
- Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
- Ion generator and ion application system
[NASA-CASE-MFS-28122-1] c 72 N88-24253
- Oxidation of semiconductors and superconductors
[NASA-CASE-NPO-17534-1-CU] c 76 N89-30076
- VACUUM DEPOSITION**
- A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
- Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395
- Vacuum evaporator with electromagnetic ion steering Patent
[NASA-CASE-NPO-10331] c 09 N71-26701
- Preparation of dielectric coating of variable dielectric constant by plasma polymerization
[NASA-CASE-ARC-10892-2] c 27 N79-14214
- Refractory coatings and method of producing the same
[NASA-CASE-LEW-13169-1] c 26 N82-29415
- Diamondlike flakes
[NASA-CASE-LEW-13837-2] c 24 N85-21267
- VACUUM EFFECTS**
- High power RF coaxial switch
[NASA-CASE-NPO-14229-1] c 33 N80-18285

VACUUM FURNACES

- Apparatus for inserting and removing specimens from high temperature vacuum furnaces
[NASA-CASE-LAR-10841-1] c 31 N74-27900

VACUUM GAGES

- Thermopile vacuum gage tube simulator Patent
[NASA-CASE-XLA-02758] c 14 N71-18481
- Gauge calibration by diffusion
[NASA-CASE-XGS-07752] c 14 N73-30390
- Ultrahigh vacuum measuring ionization gauge
[NASA-CASE-XLA-05087] c 14 N73-30391
- In situ transfer standard for ultrahigh vacuum gage calibration
[NASA-CASE-LAR-10862-1] c 35 N74-15092

VACUUM MELTING

- High temperature furnace for melting materials in space
[NASA-CASE-MFS-20710] c 11 N72-23215

VACUUM PUMPS

- Pressure control valve --- inflating flexible bladders
[NASA-CASE-ARC-11251-1] c 37 N81-17433

VACUUM SPECTROSCOPY

- Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] c 74 N86-26190

VACUUM SYSTEMS

- Shrink-fit gas valve Patent
[NASA-CASE-XGS-00587] c 15 N70-35087
- Cryogenic connector for vacuum use Patent
[NASA-CASE-XGS-02441] c 15 N70-41629
- Ionization vacuum gauge with all but the end of the ion collector shielded Patent
[NASA-CASE-XLA-07424] c 14 N71-18482
- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483
- Vacuum leak detector
[NASA-CASE-LAR-11237-1] c 35 N75-19612
- Ampoule sealing apparatus and process --- for housing a semiconductor growth charge under vacuum
[NASA-CASE-LAR-12847-1] c 33 N83-16633

VACUUM TUBES

- Integrated structure vacuum tube
[NASA-CASE-ARC-10445-1] c 31 N76-31365
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229

VALUE

- High impact pressure regulator Patent
[NASA-CASE-NPO-10175] c 14 N71-18625

VALVES

- Valve actuator Patent
[NASA-CASE-XHQ-01208] c 15 N70-35409
- Fluid coupling Patent
[NASA-CASE-XLE-00397] c 15 N70-36492
- High pressure four-way valve Patent
[NASA-CASE-XNP-00214] c 15 N70-36908
- Reinforcing means for diaphragms Patent
[NASA-CASE-XNP-01962] c 32 N70-41370
- Multway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
- Multiple orifice throttle valve Patent
[NASA-CASE-XNP-09698] c 15 N71-18580
- High pressure air valve Patent
[NASA-CASE-MSC-11010] c 15 N71-19485
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Positive locking check valve Patent
[NASA-CASE-XMS-09310] c 15 N71-22706
- Dual latching solenoid valve Patent
[NASA-CASE-XMS-05890] c 09 N71-23191
- Valve seat
[NASA-CASE-NPO-10606] c 15 N72-25451
- Evacuation valve
[NASA-CASE-LAR-10061-1] c 15 N72-31483
- Flow control valve --- for high temperature fluids
[NASA-CASE-NPO-11951-1] c 37 N74-21065
- Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
- Reciprocating engines
[NASA-CASE-MSC-16239-1] c 37 N81-32510
- Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] c 52 N84-11744
- Moisture content and gas sampling device
[NASA-CASE-MSC-18866-1] c 35 N85-29213
- Linear motion valve
[NASA-CASE-MSC-20148-1] c 37 N85-29284
- Reactant pressure differential control for fuel cell gases
[NASA-CASE-MSC-20127-2] c 37 N85-34403
- Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051
- VALVES**
- Solar vane actuator Patent
[NASA-CASE-XNP-05535] c 14 N71-23040

- Rotary vane attenuator wherein rotor has orthogonally disposed resistive and dielectric cards
[NASA-CASE-NPO-11418-1] c 14 N73-13420
- Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
- Method of protecting a surface with a silicon-slurry/aluminate coating --- coatings for gas turbine engine blades and vanes
[NASA-CASE-LEW-13343-1] c 27 N82-28441

VAPOR DEPOSITION

- A method for the deposition of beta-silicon carbide by isoeptaxy
[NASA-CASE-ERC-10120] c 26 N69-33482
- Apparatus for producing high purity silicon carbide crystals Patent
[NASA-CASE-XLA-02057] c 26 N70-40015
- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Tungsten contacts on silicon substrates
[NASA-CASE-GSC-10695-1] c 09 N72-25259
- Deposition apparatus
[NASA-CASE-LAR-10541-1] c 15 N72-32487
- Deposition of alloy films --- on irregularly shaped metal object
[NASA-CASE-LEW-11262-1] c 27 N74-13270
- System for depositing thin films
[NASA-CASE-MFS-20775-1] c 31 N75-12161
- Vapor deposition apparatus --- semiconductors and gallium arsenides
[NASA-CASE-HQN-10462] c 25 N75-29192
- Chemical vapor deposition reactor --- providing uniform film thickness
[NASA-CASE-NPO-13650-1] c 25 N79-28253
- Corrosion resistant coating
[NASA-CASE-NPO-15928-1] c 26 N85-29005
- Ceramic honeycomb structures and the method thereof
[NASA-CASE-ARC-11652-1] c 27 N87-23737
- Preparation of dilute magnetic semiconductor films by metalorganic chemical vapor deposition
[NASA-CASE-NPO-17399-1-CU] c 76 N89-14120

VAPOR PHASES

- Fluid dispensing apparatus and method Patent
[NASA-CASE-XLE-01182] c 27 N71-15635
- Simple method of making photovoltaic junctions Patent
[NASA-CASE-XNP-01960] c 09 N71-23027
- Fluid phase analyzer Patent
[NASA-CASE-NPO-10691] c 14 N71-26199
- Propellant mass distribution metering apparatus Patent
[NASA-CASE-NPO-10185] c 10 N71-26339
- Pumped two-phase heat transfer loop
[NASA-CASE-MSC-20841-1] c 34 N87-22950

VAPOR PRESSURE

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Vapor liquid separator Patent
[NASA-CASE-XMF-04042] c 15 N71-23023
- Method and apparatus for convection control of metallic halide vapor density in a metallic halide laser
[NASA-CASE-NPO-15021-1] c 36 N83-10417

VAPOR TRAPS

- Sorption vacuum trap Patent
[NASA-CASE-XER-09519] c 14 N71-18483

VAPORIZERS

- Boiler for generating high quality vapor Patent
[NASA-CASE-XLE-00785] c 33 N71-16104
- Particle analyzing method and apparatus
[NASA-CASE-NPO-15292-1] c 35 N83-27184
- Continuous laminar smoke generator
[NASA-CASE-LAR-13014-1] c 09 N85-21178

VAPORIZING

- Gas liquefaction and dispensing apparatus Patent
[NASA-CASE-NPO-10070] c 15 N71-27372
- Method for controlling vapor content of a gas
[NASA-CASE-NPO-10633] c 03 N72-28025

VAPORS

- Method of evaporation
[NASA-CASE-NPO-15609-2] c 25 N88-23846

VARACTOR DIODE CIRCUITS

- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429

VARACTOR DIODES

- Varactor high level mixer
[NASA-CASE-XGS-02171] c 09 N69-24324
- Multiple varactor frequency doubler Patent
[NASA-CASE-XMF-04958-1] c 10 N71-26414
- Millimeter wave pumped parametric amplifier
[NASA-CASE-GSC-11617-1] c 33 N74-32660
- Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1-CU] c 33 N85-29143

VARIABILITY

- Variable speed drive
[NASA-CASE-GSC-12643-1] c 37 N83-26078
- Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

VARIABLE CYCLE ENGINES

- Dual cycle aircraft turbine engine
[NASA-CASE-LAR-11310-1] c 07 N77-28118
- Variable cycle gas turbine engines
[NASA-CASE-LEW-12916-1] c 37 N78-17384
- Variable mixer propulsion cycle
[NASA-CASE-LEW-12917-1] c 07 N78-18067

VARIABLE GEOMETRY STRUCTURES

- Landing arrangement for aerial vehicles Patent
[NASA-CASE-XLA-00142] c 02 N70-33286
- Variable geometry wind tunnels
[NASA-CASE-XLA-07430] c 11 N72-22246
- Aircraft engine nozzle
[NASA-CASE-ARC-10977-1] c 07 N80-32392

VARIABLE PITCH PROPELLERS

- Dual output variable pitch turbofan actuation system
[NASA-CASE-LEW-12419-1] c 07 N77-14025
- Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468

VARIABLE SWEEP WINGS

- Variable sweep wing configuration Patent
[NASA-CASE-XLA-00230] c 02 N70-33255
- Variable sweep wing aircraft Patent
[NASA-CASE-XLA-00221] c 02 N70-33266
- Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
- Variable sweep aircraft wing Patent
[NASA-CASE-XLA-00350] c 02 N70-38011
- Variable sweep aircraft Patent
[NASA-CASE-XLA-03659] c 02 N71-11041
- Dual-fuselage aircraft having yawable wing and horizontal stabilizer
[NASA-CASE-ARC-10470-1] c 02 N73-26005

VARIABLE THRUST

- Variable thrust ion engine utilizing thermally decomposable solid fuel Patent
[NASA-CASE-XMF-00923] c 28 N70-36802
- Method for continuous variation of propellant flow and thrust in propulsive devices Patent
[NASA-CASE-XLE-00177] c 28 N70-40367
- Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055

VARIATIONS

- Bidirectional step torque filter with zero backlash characteristic Patent
[NASA-CASE-XGS-04227] c 15 N71-21744

VECTOR ANALYSIS

- Two force component measuring device Patent
[NASA-CASE-XAC-04886-1] c 14 N71-20439

VECTOR CURRENTS

- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

VECTOCARDIOGRAPHY

- Biomedical electrode arrangement Patent
[NASA-CASE-XFR-10856] c 05 N71-11189

VEGETATION GROWTH

- Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
- Remote sensing of vegetation and soil using microwave ellipsometry
[NASA-CASE-GSC-11976-1] c 43 N78-10529
- Enhancement of in vitro guayule propagation
[NASA-CASE-NPO-15213-1] c 51 N83-17045

VEHICLE WHEELS

- Deformable vehicle wheel Patent
[NASA-CASE-MFS-20400] c 31 N71-18611
- Resilient wheel Patent
[NASA-CASE-MFS-13929] c 15 N71-27091
- Omnidirectional wheel
[NASA-CASE-MFS-21309-1] c 37 N74-18125
- Two speed drive system --- mechanical device for changing speed on rotating vehicle wheel
[NASA-CASE-MFS-20645-1] c 37 N74-23070
- Fifth wheel
[NASA-CASE-FRC-10081-1] c 37 N77-14477
- Tire/wheel concept
[NASA-CASE-LAR-11695-2] c 37 N81-24443
- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

VEHICLES

- Magnetic suspension and pointing system
[NASA-CASE-LAR-11889-2] c 37 N78-27424

VEHICULAR TRACKS

- Suspension system for a wheel rolling on a flat track --- bearings for directional antennas
[NASA-CASE-NPO-14395-1] c 37 N82-21587

- Tank tread assemblies with track-linking mechanism
[NASA-CASE-NPO-16321-1CU] c 37 N87-17034

VELOCITY

- Velocity limiting safety system Patent
[NASA-CASE-XLA-07473] c 15 N71-24895

VELOCITY COUPLING

- Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568

VELOCITY MEASUREMENT

- Micrometeoroid velocity measuring device Patent
[NASA-CASE-XLA-00495] c 14 N70-41332
- Superconductive accelerometer Patent
[NASA-CASE-XMF-01099] c 14 N71-15969
- Gravimeter Patent
[NASA-CASE-XMF-05844] c 14 N71-17587
- Laser Doppler system for measuring three dimensional vector velocity Patent
[NASA-CASE-MFS-20386] c 21 N71-19212
- Particle detection apparatus including a ballistic pendulum Patent
[NASA-CASE-XMS-04201] c 14 N71-22990
- Angular velocity and acceleration measuring apparatus
[NASA-CASE-ERC-10292] c 14 N72-25410
- Flow velocity and directional instrument
[NASA-CASE-LAR-10855-1] c 14 N73-13415
- Doppler shift system --- system for measuring velocities of radiating particles
[NASA-CASE-HQN-10740-1] c 72 N74-19310
- Tachometer
[NASA-CASE-MFS-23175-1] c 35 N77-30436
- Velocity measurement system
[NASA-CASE-MFS-23363-1] c 35 N78-32396
- Fluid velocity measuring device
[NASA-CASE-LAR-11729-1] c 34 N79-12359
- Air speed and attitude probe
[NASA-CASE-FRC-11009-1] c 06 N80-18036
- Fluidic angular velocity sensor
[NASA-CASE-NPO-16479-1CU] c 35 N86-32695
- Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] c 35 N86-32697

VELOCITY MODULATION

- Molecular beam velocity selector Patent
[NASA-CASE-XLE-01533] c 11 N71-10777
- Apparatus for controlling the velocity of an electromechanical drive for interferometers and the like Patent
[NASA-CASE-XGS-03532] c 14 N71-17627

VENTILATION

- Protective garment ventilation system
[NASA-CASE-XMS-04928] c 54 N78-17679
- Low-drag ground vehicle particularly suited for use in safely transporting livestock
[NASA-CASE-FRC-11058-1] c 85 N82-33288
- Ballast system for maintaining constant pressure in a glove box
[NASA-CASE-NPO-17786-1-CU] c 35 N90-17104

VENTILATORS

- Heat sterilizable patient ventilator
[NASA-CASE-NPO-13313-1] c 54 N75-27761

VENTING

- Venting vapor apparatus Patent
[NASA-CASE-XLE-00288] c 15 N70-34247
- Liquid storage tank venting device for zero gravity environment Patent
[NASA-CASE-XLE-01449] c 15 N70-41646
- Valve seat with resilient support member Patent
[NASA-CASE-XKS-02582] c 15 N71-21234
- Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333
- Solid propellant rocket motor
[NASA-CASE-XNP-03282] c 28 N72-20758
- Passive venting technique for shallow cavities
[NASA-CASE-LAR-13875-1] c 05 N89-14233

VENTURI TUBES

- Liquid seeding atomizer
[NASA-CASE-ARC-11631-1] c 34 N87-21255

VENUS (PLANET)

- Space simulator Patent
[NASA-CASE-XNP-00459] c 11 N70-38675

VERTICAL FLIGHT

- Aircraft instrument Patent
[NASA-CASE-XLA-00487] c 14 N70-40157

VERTICAL LANDING

- Landing gear Patent
[NASA-CASE-XMF-01174] c 02 N70-41589

VERTICAL ORIENTATION

- Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493

VERTICAL TAKEOFF AIRCRAFT

- Mechanical stability augmentation system Patent
[NASA-CASE-XLA-06339] c 02 N71-13422
- Attitude controls for VTOL aircraft Patent
[NASA-CASE-XAC-08972] c 02 N71-20570

VERY HIGH FREQUENCIES

- VHF/UHF parasitic probe antenna Patent
[NASA-CASE-XKS-09340] c 07 N71-24614

VERY LARGE SCALE INTEGRATION

- Split-cross-bridge resistor for testing for proper fabrication of integrated circuits
[NASA-CASE-NPO-16021-1] c 33 N85-30187
- Method of examining microcircuit patterns
[NASA-CASE-NPO-16299-1] c 33 N87-14594
- Systolic VLSI array for implementing the Kalman filter algorithm
[NASA-CASE-NPO-17108-1-CU] c 33 N89-28713
- Network of dedicated processors for finding lowest-cost map path
[NASA-CASE-NPO-17716-1-CU] c 62 N90-10608

VERY LONG BASE INTERFEROMETRY

- System for real-time crustal deformation monitoring
[NASA-CASE-NPO-14124-1] c 46 N80-14603

VESTS

- Life preserver Patent
[NASA-CASE-XMS-00864] c 05 N70-36493

VIBRATION

- Passive caging mechanism Patent
[NASA-CASE-GSC-10306-1] c 15 N71-24694
 - Active vibration isolator for flexible bodies Patent
[NASA-CASE-LAR-10106-1] c 15 N71-27169
 - Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
 - Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
 - Vibration analyzer
[NASA-CASE-MSC-21408-1] c 37 N89-28829
- VIBRATION DAMPING**
- Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
 - Digital filter for reducing sampling jitter in digital control systems Patent
[NASA-CASE-NPO-11088] c 08 N71-29034
 - Turbo-machine blade vibration damper Patent
[NASA-CASE-XLE-00155] c 28 N71-29154
 - Active notch filter network with variable notch depth, width and frequency
[NASA-CASE-FRC-11055-1] c 33 N80-29583
 - Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
 - Variable friction secondary seal for face seals
[NASA-CASE-LEW-14170-1] c 37 N86-25790

VIBRATION EFFECTS

- Thermal detector of electromagnetic energy by means of a vibrating electrode Patent
[NASA-CASE-XAC-10768] c 09 N71-18830
- Apparatus for recovering matter adhered to a host surface
[NASA-CASE-NPO-11213] c 15 N73-20514
- Spherical bearing --- to reduce vibration effects
[NASA-CASE-MFS-23447-1] c 37 N79-11404
- Self-locking double retention redundant full pin release
[NASA-CASE-NPO-16233-1] c 37 N86-20801

VIBRATION ISOLATORS

- Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486
- Miniature vibration isolator Patent
[NASA-CASE-XLA-01019] c 15 N70-40156
- Vibration damping system Patent
[NASA-CASE-XMS-01620] c 23 N71-15673
- Hermetic sealed vibration damper Patent
[NASA-CASE-MSC-10959] c 15 N71-26243
- Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006
- Vibration isolation system using compression springs
[NASA-CASE-NPO-11012] c 15 N72-11391
- Thrust-isolating mounting --- characteristics of support for loads mounted in spacecraft
[NASA-CASE-MFS-21680-1] c 18 N74-27397
- Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573
- Thermal insulation attaching means --- adhesive bonding of felt vibration insulators under ceramic tiles
[NASA-CASE-MSC-12619-2] c 27 N79-12221
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
- Vibration isolation and pressure compensation apparatus for sensitive instrumentation
[NASA-CASE-LAR-12728-1] c 35 N83-32026
- Aircraft rotor blade with passive tuned tab
[NASA-CASE-ARC-11444-1] c 05 N85-29947
- Variable force, eddy-current or magnetic damper
[NASA-CASE-LEW-13717-1] c 37 N85-30333
- Segmented tubular cushion springs and spring assembly
[NASA-CASE-ARC-11349-1] c 37 N86-20797

VIBRATION MEASUREMENT

VIBRATION MEASUREMENT

Method and apparatus for measuring the damping characteristics of a structure
[NASA-CASE-ARC-10154-1] c 14 N72-22440

Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

Displacement probes with self-contained exciting medium
[NASA-CASE-LAR-11690-1] c 35 N80-14371

Emitted vibration measurement device and method
[NASA-CASE-MFS-25981-1] c 35 N87-14670

VIBRATION METERS

Fiber optic vibration transducer and analyzer Patent
[NASA-CASE-XMF-02433] c 14 N71-10616

Ride quality meter
[NASA-CASE-LAR-12882-1] c 35 N84-12445

VIBRATION MODE

Function generator for synthesizing complex vibration mode patterns
[NASA-CASE-LAR-10310-1] c 10 N73-20253

VIBRATION SIMULATORS

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

VIBRATION TESTS

Peak acceleration limiter for vibrational tester Patent
[NASA-CASE-NPO-10556] c 14 N71-27185

Fixture for supporting articles during vibration tests
[NASA-CASE-MFS-20523] c 14 N72-27412

Apparatus for vibrational testing of articles
[NASA-CASE-GSC-11302-1] c 14 N73-13416

Multi axes vibration fixtures
[NASA-CASE-MFS-20242] c 14 N73-19421

Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503

VIBRATIONAL SPECTRA

Dynamic vibration absorber Patent
[NASA-CASE-LAR-10083-1] c 15 N71-27006

VIDEO COMMUNICATION

Means for generating a sync signal in an FM communication system Patent
[NASA-CASE-XNP-10830] c 07 N71-11281

Reduced bandwidth video communication system utilizing sampling techniques Patent
[NASA-CASE-XNP-02791] c 07 N71-23026

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

Sampling video compression system
[NASA-CASE-ARC-10984-1] c 32 N77-24328

VIDEO DATA

Digital television camera control system Patent
[NASA-CASE-XNP-01472] c 14 N70-41807

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Facsimile video remodulation network
[NASA-CASE-GSC-10185-1] c 07 N72-12081

Dual digital video switcher
[NASA-CASE-KSC-10782-1] c 33 N75-30431

Neighborhood comparison operator
[NASA-CASE-NPO-16464-1CU] c 60 N86-24224

VIDEO EQUIPMENT

Television signal processing system Patent
[NASA-CASE-NPO-10140] c 07 N71-24742

Video sync processor Patent
[NASA-CASE-KSC-10002] c 10 N71-25865

Video communication system and apparatus Patent
[NASA-CASE-XNP-06611] c 07 N71-26102

Video signal enhancement system with dynamic range compression and modulation index expansion Patent
[NASA-CASE-NPO-10343] c 07 N71-27341

Broadband video process with very high input impedance
[NASA-CASE-NPO-10199] c 09 N72-17156

Electronic video editor
[NASA-CASE-KSC-10003] c 10 N73-13235

Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

Stack plume visualization system
[NASA-CASE-LAR-11675-1] c 45 N76-17656

Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163

Programmable pipelined image processor
[NASA-CASE-NPO-16461-1CU] c 60 N89-26400

VIDEO SIGNALS

Programmable scan/read circuitry for charge coupled device imaging detectors --- spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] c 74 N84-23247

Television camera video level control system
[NASA-CASE-MSC-18578-1] c 32 N85-21427

Large TV display system
[NASA-CASE-NPO-16932-1CU] c 33 N87-15413

Method and apparatus for telemetry adaptive bandwidth compression
[NASA-CASE-MSC-20821-1] c 17 N87-25348

VIDEO TAPE RECORDERS

Transient video signal recording with expanded playback Patent
[NASA-CASE-ARC-10003-1] c 09 N71-25866

Scan converting video tape recorder
[NASA-CASE-NPO-10166-1] c 07 N73-22076

Scan converting video tape recorder
[NASA-CASE-NPO-10166-2] c 35 N76-16391

VIDICONS

Method of erasing target material of a vidicon tube or the like Patent
[NASA-CASE-XNP-06028] c 09 N71-23189

Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036

VIEWING

Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920

Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

VINYL COPOLYMERS

Copolymers of vinyl styrylpyridines or vinyl stilbazoles with bismaleimide
[NASA-CASE-ARC-11429-1-CU] c 27 N86-20560

Vinyl stilbazoles
[NASA-CASE-ARC-11429-3CU] c 27 N87-16908

Structural panels
[NASA-CASE-ARC-11429-2-CU] c 27 N87-22845

VINYL POLYMERS

Method of using photovoltaic cell using poly-N-vinylcarbazole complex Patent
[NASA-CASE-NPO-10373] c 03 N71-18698

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-1] c 27 N78-32256

Compound oxidized styrylphosphine --- flame resistant vinyl polymers
[NASA-CASE-MSC-14903-2] c 27 N80-10358

Heat resistant polymers of oxidized styrylphosphine
[NASA-CASE-MSC-14903-3] c 27 N80-24438

VINYLIDENE

Dicyanoacetylene polymers Patent
[NASA-CASE-XNP-03250] c 06 N71-23500

VIRUSES

Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693

VISCOELASTICITY

Resilience testing device Patent
[NASA-CASE-XLA-08254] c 14 N71-26161

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

Shock absorbing mount for electrical components
[NASA-CASE-NPO-13253-1] c 37 N75-18573

Viscoelastic cationic polymers containing the urethane linkage
[NASA-CASE-NPO-10830-1] c 27 N81-15104

VISCOSITY

Parallel plate viscometer Patent
[NASA-CASE-XNP-09462] c 14 N71-17584

Parallel-plate viscometer with double diaphragm suspension
[NASA-CASE-NPO-11387] c 14 N73-14429

VISCOSITY

Low viscosity magnetic fluid obtained by the colloidal suspension of magnetic particles Patent
[NASA-CASE-XLE-01512] c 12 N70-40124

Viscosity measuring instrument
[NASA-CASE-NPO-14501-1] c 35 N80-18357

Process of end-capping a polyimide system
[NASA-CASE-LAR-13135-1] c 27 N86-19456

VISCOS DAMPING

Variable stiffness polymeric damper
[NASA-CASE-XAC-11225] c 14 N69-27486

Viscous-pendulum-damper Patent
[NASA-CASE-XLA-02079] c 12 N71-16894

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626

Multiple plate hydrostatic viscous damper
[NASA-CASE-LEW-12445-1] c 37 N81-22360

VISIBILITY

Controlled visibility device for an aircraft Patent
[NASA-CASE-XFR-04147] c 11 N71-10748

Reusable captive blind fastener
[NASA-CASE-MSC-18742-1] c 37 N82-26673

VISIBLE SPECTRUM

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISION

Retinally stabilized differential resolution television display
[NASA-CASE-NPO-15432-1] c 32 N85-29117

VISORS

Anti-fog composition --- for prevention of fogging on surfaces such as space helmet visors and windshields
[NASA-CASE-MSC-13530-2] c 23 N75-14834

Polycarbonate article with chemical resistant coating
[NASA-CASE-MSC-21503-1] c 27 N90-16925

VISUAL ACUITY

Multiparameter vision testing apparatus
[NASA-CASE-MSC-13601-2] c 54 N75-27759

VISUAL CONTROL

Visual target for retrofire attitude control
[NASA-CASE-XMS-12158-1] c 31 N69-27499

Spectrally balanced chromatic landing approach lighting system
[NASA-CASE-ARC-10990-1] c 04 N82-16059

VISUAL FIELDS

Visual examination apparatus
[NASA-CASE-ARC-10329-1] c 05 N73-26072

Visual examination apparatus
[US-PATENT-RE-28,921] c 52 N76-30793

Binocular device for displaying numerical information in field of view
[NASA-CASE-LAR-11782-1] c 74 N77-20882

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] c 09 N84-12193

VISUAL OBSERVATION

Automatic visual inspection system for microelectronics
[NASA-CASE-NPO-13282] c 38 N78-17396

VISUAL PERCEPTION

Liquid flow sight assembly Patent
[NASA-CASE-XLE-02998] c 14 N70-42074

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] c 06 N87-22678

Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-2] c 52 N89-16256

VISUAL STIMULI

Reaction tester
[NASA-CASE-MSC-13604-1] c 05 N73-13114

VITERBI DECODERS

Space communication system for compressed data with a concatenated Reed-Solomon-Viterbi coding channel
[NASA-CASE-NPO-13545-1] c 32 N77-12240

VOICE COMMUNICATION

Position location system and method Patent
[NASA-CASE-GSC-10087-2] c 21 N71-13958

Satellite communication system and method Patent
[NASA-CASE-GSC-10118-1] c 07 N71-24621

Protective suit having an audio transceiver Patent
[NASA-CASE-KSC-10164] c 07 N71-33108

Technique for recovery of voice data from heat damaged magnetic tape
[NASA-CASE-MSC-14219-1] c 32 N74-27612

Filtering device --- removing electromagnetic noise from voice communication signals
[NASA-CASE-MFS-22729-1] c 32 N76-21366

Real time analysis of voiced sounds
[NASA-CASE-NPO-13465-1] c 32 N76-31372

Satellite personal communications system
[NASA-CASE-NPO-14480-1] c 32 N80-20448

VOICE DATA PROCESSING

Digital communication system
[NASA-CASE-MSC-13912-1] c 32 N74-30524

Method and apparatus for operating on compressed PCM voice data
[NASA-CASE-KSC-11285-1] c 32 N86-27513

VOIDS

Wet spinning of solid polyamic acid fibers
[NASA-CASE-LAR-14162-1] c 27 N90-15259

VOLATILITY

Apparatus for testing polymeric materials Patent
[NASA-CASE-XNP-09699] c 06 N71-24607

VOLT-AMPERE CHARACTERISTICS

Voltage-current characteristic simulator Patent
[NASA-CASE-XMS-01554] c 10 N71-10578

The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428

Apparatus including a plurality of spaced transformers for locating short circuits in cables
[NASA-CASE-KSC-10899-1] c 33 N79-18193

VOLTAGE AMPLIFIERS

Electronic amplifier with power supply switching Patent
[NASA-CASE-XMS-00945] c 09 N71-10798

Bootstrap unloader Patent
[NASA-CASE-XNP-09768] c 09 N71-12516

Active RC networks
[NASA-CASE-ARC-10020] c 10 N72-17172

Wide range analog-to-digital converter with a variable gain amplifier
[NASA-CASE-NPO-11018] c 08 N72-21200

Voltage feed through apparatus having reduced partial discharge
[NASA-CASE-GSC-12347-1] c 33 N80-18286

Arc lamp power supply using a voltage multiplier
[NASA-CASE-LAR-13202-1] c 33 N88-23942

VOLTAGE CONTROLLED OSCILLATORS
Pulsed phase locked loop strain monitor --- voltage controlled oscillators
[NASA-CASE-LAR-12772-1] c 33 N83-16626
Automatic oscillator frequency control system
[NASA-CASE-GSC-12804-1] c 33 N86-20668
Radio Frequency (RF) strain monitor
[NASA-CASE-LAR-13705-1] c 39 N88-25011

VOLTAGE CONVERTERS (DC TO DC)
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
The dc-to-dc converters employing staggered-phase power switches with two-loop control
[NASA-CASE-NPO-13512-1] c 33 N77-10428
Inrush current limiter
[NASA-CASE-GSC-11789-1] c 33 N77-14333
Phase substitution of spare converter for a failed one of parallel phase staggered converters
[NASA-CASE-NPO-13812-1] c 33 N77-30365
Regulated high efficiency, lightweight capacitor-diode multiplier dc to dc converter
[NASA-CASE-LEW-12791-1] c 33 N78-32341
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Elimination of current spikes in buck power converters
[NASA-CASE-NPO-14505-1] c 33 N81-19393
Push-pull converter with energy saving circuit for protecting switching transistors from peak power stress
[NASA-CASE-NPO-14316-1] c 33 N81-33404
Power converter
[NASA-CASE-FRC-11014-1] c 33 N82-18494
A dc to dc converter
[NASA-CASE-MFS-25430-1] c 33 N84-16453
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] c 33 N84-33663

VOLTAGE GENERATORS
Pulsed energy power system Patent
[NASA-CASE-MSC-13112] c 03 N71-11057
Telemeter adaptable for implanting in an animal Patent
[NASA-CASE-XAC-05706] c 05 N71-12342
Multiple slope sweep generator Patent
[NASA-CASE-XMS-03542] c 09 N71-28926
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Driver for solar cell I-V characteristic plots
[NASA-CASE-NPO-14096-1] c 44 N80-18551
Adaptive reference voltage generator for firing angle control of line-commutated inverters
[NASA-CASE-MFS-25215-1] c 33 N83-31953

VOLTAGE REGULATORS
Regulated dc to dc converter
[NASA-CASE-XGS-03429] c 03 N69-21330
Power control circuit
[NASA-CASE-XNP-02713] c 10 N69-39888
Amplifier drift tester
[NASA-CASE-XMS-05562-1] c 09 N69-39986
Bus voltage compensation circuit for controlling direct current motor
[NASA-CASE-XMS-04215-1] c 09 N69-39987
Regulated power supply Patent
[NASA-CASE-XMS-01991] c 09 N71-21449
High voltage divider system Patent
[NASA-CASE-XLE-02008] c 09 N71-21583
Power supply circuit Patent
[NASA-CASE-XMS-00913] c 10 N71-23543
Voltage to frequency converter Patent
[NASA-CASE-GSC-10022-1] c 10 N71-25882
Buck boost voltage regulation circuit Patent
[NASA-CASE-GSC-10735-1] c 10 N71-26085
Automatic signal range selector for metering devices Patent
[NASA-CASE-XMS-06497] c 14 N71-26244
Voltage regulator with plural parallel power source sections Patent
[NASA-CASE-GSC-10891-1] c 10 N71-26626
Maximum power point tracker Patent
[NASA-CASE-GSC-10376-1] c 14 N71-27407
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
Reference voltage switching unit
[NASA-CASE-NPO-11253] c 09 N72-17157
Switching regulator
[NASA-CASE-LEW-11005-1] c 09 N72-21243
Controllable load insensitive power converters
[NASA-CASE-ERC-10268] c 09 N72-25252
Regulated dc-to-dc converter for voltage step-up or step-down with input-output isolation
[NASA-CASE-HQN-10792-1] c 33 N74-11049
Overvoltage protection network
[NASA-CASE-ARC-10197-1] c 33 N74-17929

Low distortion automatic phase control circuit --- voltage controlled phase shifter
[NASA-CASE-MFS-21671-1] c 33 N74-22885
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521
Transformer regulated self-stabilizing chopper
[NASA-CASE-XGS-09186] c 33 N78-17295
Voltage regulator for battery power source --- using a bipolar transistor
[NASA-CASE-FRC-10116-1] c 33 N79-23345
Buck/boost regulator
[NASA-CASE-GSC-12360-1] c 33 N81-19392
Motor power factor controller with a reduced voltage starter
[NASA-CASE-MFS-25586-1] c 33 N82-11360
Pulse switching for high energy lasers
[NASA-CASE-NPO-14556-1] c 33 N82-24418
Three phase power factor controller
[NASA-CASE-MFS-25535-2] c 33 N84-22885
High voltage isolation transformer
[NASA-CASE-GSC-12817-1] c 33 N85-29146

VOLTMETERS
Voltage monitoring system
[NASA-CASE-KSC-10736-1] c 33 N75-19521

VOLUME
Mining volume measurement system
[NASA-CASE-LAR-13519-1] c 35 N88-23963

VOLUMETRIC ANALYSIS
Volumetric direct nuclear pumped laser
[NASA-CASE-LAR-12183-1] c 36 N79-18307

VOMITING
Venting device for pressurized space suit helmet Patent
[NASA-CASE-XMS-09652-1] c 05 N71-26333

VORTEX BREAKDOWN
Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

VORTEX GENERATORS
Multiway vortex valve system Patent
[NASA-CASE-XMF-04709] c 15 N71-15609
Vortex generator for controlling the dispersion of effluents in a flowing liquid
[NASA-CASE-LAR-12045-1] c 34 N77-24423
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] c 34 N85-33433
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

VORTICES
Vortex-lift roll-control device
[NASA-CASE-LAR-11868-2] c 08 N79-14108

VORTICITY
Crossflow vorticity sensor
[NASA-CASE-LAR-13436-1-CU] c 02 N88-23759

VULCANIZING
Method for compression molding of thermosetting plastics utilizing a temperature gradient across the plastic to cure the article
[NASA-CASE-LAR-10489-1] c 31 N74-18124

W

WAFERS

Apparatus and method for separating a semiconductor wafer Patent
[NASA-CASE-ERC-10138] c 26 N71-14354
Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
System for slicing silicon wafers
[NASA-CASE-NPO-14406-1] c 37 N80-29703
Scriber for silicon wafers
[NASA-CASE-NPO-15539-1] c 37 N82-11469
Method of Fabricating Schottky Barrier solar cell
[NASA-CASE-NPO-13689-4] c 44 N82-28780
Method of making a high voltage V-groove solar cell
[NASA-CASE-LEW-13401-1] c 44 N82-29709
High voltage planar multijunction solar cell
[NASA-CASE-LEW-13400-1] c 44 N82-31764
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-15670-1] c 33 N82-33634
High voltage v-groove solar cell
[NASA-CASE-LEW-13401-2] c 44 N83-32177
Method of increasing minority carrier lifetime in silicon web or the like
[NASA-CASE-NPO-15530-1] c 76 N83-35888
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] c 33 N84-22884
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] c 76 N84-35112

Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] c 76 N84-35113
Ingot slicing machine and method
[NASA-CASE-NPO-15483-1] c 37 N85-21650
Lithium counterdoped silicon solar cell
[NASA-CASE-LEW-14177-1] c 44 N86-32875
Cross-contact chain
[NASA-CASE-NPO-16784-1] c 33 N87-10231
Floating emitter solar cell
[NASA-CASE-NPO-16467-1-CU] c 33 N87-23879

WAKES
Space ultra-vacuum facility and method of operation
[NASA-CASE-MFS-28139-1] c 29 N87-18679

WALKING
Drop foot corrective device
[NASA-CASE-LAR-12259-2] c 54 N86-22112

WALKING MACHINES
Space spider crane
[NASA-CASE-LAR-13411-1-SB] c 18 N88-23828

WALL TEMPERATURE
Method of making apparatus for sensing temperature
[NASA-CASE-XLE-05230-2] c 14 N73-13417
Structural heat pipe --- for spacecraft wall thermal insulation system
[NASA-CASE-GSC-11619-1] c 34 N75-12222
Thermal control canister
[NASA-CASE-GSC-12253-1] c 34 N79-31523
Curved film cooling admission tube
[NASA-CASE-LEW-13174-1] c 34 N83-27144

WALLS
Formed metal ribbon wrap Patent
[NASA-CASE-XLE-00164] c 15 N70-36411
Method and apparatus for mapping the distribution of chemical elements in an extended medium
[NASA-CASE-GSC-12808-1] c 25 N85-21279
Apparatus and method to keep the walls of a free-space reactor free from deposits of solid materials
[NASA-CASE-NPO-15851-1] c 37 N85-21652
Sound attenuation apparatus
[NASA-CASE-LAR-13968-1] c 71 N90-15710

WARNING SYSTEMS
Out of tolerance warning alarm system for plurality of monitored circuits Patent
[NASA-CASE-XMS-10984-1] c 10 N71-19417
Unsaturation saturable core transformer Patent
[NASA-CASE-ERC-10125] c 09 N71-24893
Electrical apparatus for detection of thermal decomposition of insulation Patent
[NASA-CASE-XMF-03968] c 14 N71-27186
Combustion products generating and metering device
[NASA-CASE-GSC-11095-1] c 14 N72-10375
Stacked array of omnidirectional antennas
[NASA-CASE-LAR-10545-1] c 09 N72-21244
Display research collision warning system
[NASA-CASE-HQN-10703] c 21 N73-13643
System for indicating direction of intruder aircraft
[NASA-CASE-ERC-10226-1] c 14 N73-16483
Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
Apparatus for aiding a pilot in avoiding a midair collision between aircraft
[NASA-CASE-LAR-10717-1] c 21 N73-30641
Inverter ratio failure detector
[NASA-CASE-NPO-13160-1] c 35 N74-18090
Hearing aid malfunction detection system
[NASA-CASE-MSC-14916-1] c 33 N78-10375
Automatic communication signal monitoring system
[NASA-CASE-NPO-13941-1] c 32 N79-10262
Passive intrusion detection system
[NASA-CASE-NPO-13804-1] c 33 N80-23559
Scanning seismic intrusion detection method and apparatus --- monitoring unwanted subterranean entry and departure
[NASA-CASE-ARC-11317-1] c 35 N83-34272

WASHING
Method of neutralizing the corrosive surface of amine-cured epoxy resins
[NASA-CASE-GSC-12686-1] c 27 N83-34039

WASTE DISPOSAL
Relief container
[NASA-CASE-XMS-06761] c 05 N69-23192
An airlock
[NASA-CASE-MFS-20922] c 31 N72-20840
Liquid waste feed system
[NASA-CASE-LAR-10365-1] c 05 N72-27102
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Airlock
[NASA-CASE-MFS-20922-1] c 18 N74-22136
Automatic liquid inventory collecting and dispensing unit
[NASA-CASE-LAR-11071-1] c 35 N75-19611
Automatic biowaste sampling
[NASA-CASE-MSC-14640-1] c 54 N76-14804

- Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] c 54 N84-11758
Improved method and apparatus for waste collection and storage
[NASA-CASE-MSC-21025-1] c 31 N87-25495
- WASTE ENERGY UTILIZATION**
Automotive absorption air conditioner utilizing solar and motor waste heat
[NASA-CASE-NPO-15183-1] c 44 N82-26776
Apparatus for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-1] c 07 N83-36029
Method for improving the fuel efficiency of a gas turbine engine
[NASA-CASE-LEW-13142-2] c 07 N86-20389
- WASTE HEAT**
Thermal control system --- removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] c 34 N84-14461
- WASTE TREATMENT**
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027
- WASTE UTILIZATION**
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
- WASTE WATER**
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967
- WATER**
High power-high voltage workload Patent
[NASA-CASE-XNP-05381] c 09 N71-20842
Procedure and apparatus for determination of water in nitrogen tetroxide
[NASA-CASE-NPO-10234] c 06 N72-17094
Hydrogen rich gas generator
[NASA-CASE-NPO-13342-1] c 37 N76-16446
Solar hydrogen generator
[NASA-CASE-LAR-11361-1] c 44 N77-22607
Remote water monitoring system
[NASA-CASE-LAR-11973-1] c 35 N78-27384
Solar photolysis of water
[NASA-CASE-NPO-14126-1] c 44 N79-11470
- WATER FLOW**
Potable water dispenser
[NASA-CASE-MFS-21115-1] c 54 N74-12779
Self-contained, single-use hose and tubing cleaning module
[NASA-CASE-MSC-20857-1] c 37 N87-17035
- WATER INJECTION**
Reentry communication by material addition Patent
[NASA-CASE-XLA-01552] c 07 N71-11284
- WATER LANDING**
Vehicle parachute and equipment jettison system Patent
[NASA-CASE-XLA-00195] c 02 N70-38009
Emergency earth orbital escape device
[NASA-CASE-MSC-13281] c 31 N72-18859
- WATER MANAGEMENT**
Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Solar-powered pump
[NASA-CASE-NPO-13567-1] c 44 N76-29701
- WATER POLLUTION**
Compact solar still Patent
[NASA-CASE-XMS-04533] c 15 N71-23086
Bacterial contamination monitor
[NASA-CASE-GSC-10879-1] c 14 N72-25413
Method and automated apparatus for detecting coliform organisms
[NASA-CASE-MSC-16777-1] c 51 N80-27067
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967
- WATER QUALITY**
Fluid sample collection and distribution system --- qualitative analysis of aqueous samples from several points
[NASA-CASE-MSC-16841-1] c 34 N79-24285
Rapid, quantitative determination of bacteria in water --- adenosine triphosphate
[NASA-CASE-GSC-12158-1] c 51 N83-27569
Method for detecting coliform organisms
[NASA-CASE-ARC-11322-1] c 51 N83-28849

WATER RECLAMATION

- Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Water separator
[NASA-CASE-XMS-01295-1] c 37 N79-21345

WATER RESOURCES

- Radar target for remotely sensing hydrological phenomena
[NASA-CASE-LAR-12344-1] c 43 N80-18498

WATER TEMPERATURE

- Differential temperature transducer Patent
[NASA-CASE-XAC-00812] c 14 N71-15598

WATER TREATMENT

- Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718
Method of preparing water purification membranes --- polymerization of allyl amine as thin films in plasma discharge
[NASA-CASE-ARC-10643-1] c 25 N75-12087
Iodine generator for reclaimed water purification
[NASA-CASE-MSC-14632-1] c 54 N78-14784
Water system virus detection
[NASA-CASE-MSC-16098-1] c 51 N79-10693
Simultaneous treatment of SO₂ containing stack gases and waste water
[NASA-CASE-MSC-16258-1] c 45 N79-12584
Process for purification of waste water produced by a Kraft process pulp and paper mill
[NASA-CASE-NPO-13847-2] c 85 N79-17747
Ozonation of cooling tower waters
[NASA-CASE-NPO-14340-1] c 45 N80-14579
Reverse osmosis membrane of high urea rejection properties --- water purification
[NASA-CASE-ARC-10980-1] c 27 N80-23452
Membrane consisting of polyquaternary amine ion exchange polymer network interpenetrating the chains of thermoplastic matrix polymer
[NASA-CASE-NPO-14001-1] c 27 N81-14076
Sewage sludge additive
[NASA-CASE-NPO-13877-1] c 45 N82-11634
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] c 45 N84-12654
A combined air and water pollution control system
[NASA-CASE-NST-00007-1] c 45 N89-28967
Method and apparatus for bio-regenerative life support system
[NASA-CASE-MSC-21629-1] c 54 N89-29027
- WATER VAPOR**
Vapor pressure measuring system and method Patent
[NASA-CASE-XMS-01618] c 14 N71-20741
Cell and method for electrolysis of water and anode
[NASA-CASE-MSC-16394-1] c 28 N81-24280
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-2] c 36 N83-29681

WATER WAVES

- Surface roughness measuring system --- synthetic aperture radar measurements of ocean wave height and terrain peaks
[NASA-CASE-NPO-13862-1] c 35 N79-10391
Oceanic wave measurement system
[NASA-CASE-MFS-23862-1] c 48 N80-18667

WATERPROOFING

- Glass-to-metal seals comprising relatively high expansion metals
[NASA-CASE-LEW-10698-1] c 37 N74-21063
Elevated waterproof access floor system and method of making the same
[NASA-CASE-ARC-11363-1] c 31 N87-16918

WATERWAVE ENERGY CONVERSION

- Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834

WAVE AMPLIFICATION

- Distributed feedback acoustic surface wave oscillator
[NASA-CASE-NPO-13673-1] c 71 N77-26919

WAVE DIFFRACTION

- Diffraction grating configuration for X-ray and ultraviolet focusing
[NASA-CASE-GSC-12357-1] c 74 N80-21140

WAVE FRONT RECONSTRUCTION

- Recording and reconstructing focused image holograms Patent
[NASA-CASE-ERC-10017] c 16 N71-15567

WAVE GENERATION

- Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Linear sawtooth voltage-wave generator employing transistor timing circuit having capacitor-zener diode combination feedback Patent
[NASA-CASE-XMS-01315] c 09 N70-41675

- Waveform simulator Patent
[NASA-CASE-NPO-10251] c 10 N71-27365
Wide band doubler and sine wave quadrature generator
[NASA-CASE-NPO-11133] c 10 N72-20223
Material suspension within an acoustically excited resonant chamber --- at near weightless conditions
[NASA-CASE-NPO-13263-1] c 12 N75-24774
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1-CU] c 35 N86-20752
- WAVE INTERACTION**
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
- WAVE PROPAGATION**
Double reference pulsed phase locked loop
[NASA-CASE-LAR-13310-1] c 32 N87-14559
- WAVE REFLECTION**
Microwave flaw detector Patent
[NASA-CASE-ARC-10009-1] c 15 N71-17822
Millimeter wave antenna system Patent Application
[NASA-CASE-GSC-10949-1] c 07 N71-28965
- WAVE RESISTANCE**
Reactanceless synthesized impedance bandpass amplifier
[NASA-CASE-GSC-12788-1] c 33 N85-29145
- WAVE SCATTERING**
Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
Method and apparatus for Delta Kappa synthetic aperture radar measurement of ocean current
[NASA-CASE-NPO-15704-1] c 32 N85-34327
- WAVEFORMS**
Variable frequency magnetic multivibrator Patent
[NASA-CASE-XGS-00131] c 09 N70-38995
Single or joint amplitude distribution analyzer Patent
[NASA-CASE-XNP-01383] c 09 N71-10659
Peak polarity selector Patent
[NASA-CASE-FRC-10010] c 10 N71-24862
Family of frequency to amplitude converters
[NASA-CASE-MSC-12395] c 09 N72-25257
Apparatus for statistical time-series analysis of electrical signals
[NASA-CASE-MSC-12428-1] c 10 N73-25240
Low distortion receiver for bi-level baseband PCM waveforms
[NASA-CASE-MSC-14557-1] c 32 N76-16249
Speech analyzer
[NASA-CASE-GSC-11898-1] c 32 N77-30309
Lightning current waveform measuring system
[NASA-CASE-KSC-11018-1] c 33 N79-10337
- WAVEGUIDE ANTENNAS**
Virtual wall slot circularly polarized planar array antenna
[NASA-CASE-NPO-10301] c 07 N72-11148
- WAVEGUIDE FILTERS**
High power microwave power divider Patent
[NASA-CASE-NPO-11031] c 07 N71-33606
- WAVEGUIDE WINDOWS**
Broadband microwave waveguide window Patent
[NASA-CASE-XNP-08880] c 09 N71-24808
- WAVEGUIDES**
Dual waveguide mode source having control means for adjusting the relative amplitude of two modes Patent
[NASA-CASE-XNP-03134] c 07 N71-10676
Folded traveling wave maser structure Patent
[NASA-CASE-XNP-05219] c 16 N71-15550
Quasi-optical microwave component Patent
[NASA-CASE-ERC-10011] c 07 N71-29065
Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Thin film microwave iris
[NASA-CASE-LAR-10511-1] c 09 N72-29172
Resonant waveguide stark cell --- using microwave spectrometers
[NASA-CASE-LAR-11352-1] c 33 N75-26245
Diffused waveguiding capillary tube with distributed feedback for a gas laser
[NASA-CASE-NPO-13544-1] c 36 N76-18428
Dielectric-loaded waveguide circulator for cryogenically cooled and cascaded maser waveguide structures
[NASA-CASE-NPO-14254-1] c 36 N80-18372
Support assembly for cryogenically coolable low-noise choke waveguide
[NASA-CASE-NPO-14253-1] c 32 N80-32605
Coaxial phased array antenna
[NASA-CASE-MSC-16800-1] c 32 N81-14187
Coupled cavity traveling wave tube with velocity tapering
[NASA-CASE-LEW-12296-1] c 33 N82-26568
Waveguide cooling system
[NASA-CASE-NPO-15401-1] c 32 N83-27085

- Universal nondestructive MM-wave integrated circuit test fixture
[NASA-CASE-LEW-14746-1] c 33 N90-17009
- WAVELENGTHS**
Method and apparatus for wavelength tuning of liquid lasers
[NASA-CASE-ERC-10187] c 16 N69-31343
Instrument for the quantitative measurement of radiation at multiple wave lengths Patent
[NASA-CASE-XLE-00011] c 14 N70-41946
Optical systems having spatially invariant outputs
[NASA-CASE-ERC-10248] c 14 N72-17323
Two color horizon sensor
[NASA-CASE-ERC-10174] c 14 N72-25409
Monitoring deposition of films
[NASA-CASE-MFS-20675] c 26 N73-26751
Dual wavelength scanning Doppler velocimeter --- without perturbation of flow fields
[NASA-CASE-ARC-10637-1] c 35 N75-16783
Diatomic infrared gasdynamic laser --- for producing different wavelengths
[NASA-CASE-ARC-10370-1] c 36 N75-31426
Fluorescent radiation converter
[NASA-CASE-GSC-12528-1] c 74 N81-24900
Acoustic levitation methods and apparatus
[NASA-CASE-NPO-15562-1] c 71 N82-27086
Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
Dual laser optical system and method for studying fluid flow
[NASA-CASE-MFS-25315-1] c 36 N83-29680
Acoustic suspension system
[NASA-CASE-NPO-15435-1] c 71 N83-36846
Dual wavelength holographic interferometry system
[NASA-CASE-MFS-28242-1] c 35 N89-26202
Field induced gap infrared detector
[NASA-CASE-NPO-17526-1-CU] c 35 N89-28796
- WAVES**
Natural turbulence electrical power generator --- using wave action or random motion
[NASA-CASE-LAR-11551-1] c 44 N80-29834
- WEAR**
Refractory coatings
[NASA-CASE-LEW-13169-2] c 26 N82-30371
- WEAR INHIBITORS**
Composite seal for turbomachinery
[NASA-CASE-LEW-12131-3] c 37 N82-19540
- WEATHERPROOFING**
Weatherproof helix antenna Patent
[NASA-CASE-XKS-08485] c 07 N71-19493
- WEBS (SHEETS)**
Method and apparatus for measuring web material wound on a reel
[NASA-CASE-GSC-11902-1] c 38 N77-17495
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-1] c 35 N82-25484
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- WEBS (SUPPORTS)**
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096
- WEDGES**
Two dimensional wedge/translating shroud nozzle
[NASA-CASE-LAR-11919-1] c 07 N78-27121
- WEIGHT (MASS)**
Suspended mass impact damper Patent
[NASA-CASE-LAR-10193-1] c 15 N71-27146
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] c 06 N84-34443
- WEIGHT INDICATORS**
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
- WEIGHT MEASUREMENT**
Automatic force measuring system Patent
[NASA-CASE-XLA-02605] c 14 N71-10773
Device for monitoring a change in mass in varying gravimetric environments
[NASA-CASE-MFS-21556-1] c 35 N74-26945
Portable pallet weighing apparatus
[NASA-CASE-GSC-12789-1] c 35 N85-20294
- WEIGHTLESSNESS**
Apparatus for transferring cryogenic liquids Patent
[NASA-CASE-XLE-00345] c 15 N70-38020
Liquid-gas separation system Patent
[NASA-CASE-XMS-01624] c 15 N70-40062
Measuring device Patent
[NASA-CASE-XMS-01546] c 14 N70-40233
- Zero gravity starting means for liquid propellant motors Patent
[NASA-CASE-XNP-01390] c 28 N70-41275
Liquid-gas separator for zero gravity environment Patent
[NASA-CASE-XMS-01492] c 05 N70-41297
Recovery of potable water from human wastes in below-G conditions Patent
[NASA-CASE-XLA-03213] c 05 N71-11207
Zero gravity separator Patent
[NASA-CASE-XLE-00586] c 15 N71-15968
Reduced gravity simulator Patent
[NASA-CASE-XLA-01787] c 11 N71-16028
Method and apparatus of simulating zero gravity conditions Patent
[NASA-CASE-MFS-12750] c 27 N71-16223
Quick disconnect latch and handle combination Patent
[NASA-CASE-MFS-11132] c 15 N71-17649
Spherical tank gauge Patent
[NASA-CASE-XMS-06236] c 14 N71-21007
Zero gravity apparatus Patent
[NASA-CASE-XMF-06515] c 14 N71-23227
Skeletal stressing method and apparatus Patent
[NASA-CASE-ARC-10100-1] c 05 N71-24738
Material handling device Patent
[NASA-CASE-XNP-09770-3] c 11 N71-27036
Method of making foamed materials in zero gravity
[NASA-CASE-XMF-09902] c 15 N72-11387
Remote control manipulator for zero gravity environment
[NASA-CASE-MFS-14405] c 15 N72-28495
Zero gravity liquid mixer
[NASA-CASE-LAR-10195-1] c 15 N73-19458
Zero gravity liquid transfer screen
[NASA-CASE-KSC-10626] c 14 N73-27378
Reduced gravity fecal collector seat and urinal
[NASA-CASE-MFS-22102-1] c 54 N74-20725
Apparatus for conducting flow electrophoresis in the substantial absence of gravity
[NASA-CASE-MFS-21394-1] c 34 N74-27744
Rotary plant growth accelerating apparatus --- weightlessness
[NASA-CASE-ARC-10722-1] c 51 N75-25503
Fluid control apparatus and method
[NASA-CASE-LAR-11110-1] c 34 N75-26282
Method for manufacturing mirrors in zero gravity environment
[NASA-CASE-MSC-12611-1] c 12 N76-15189
Fluid mass sensor for a zero gravity environment
[NASA-CASE-MSC-14653-1] c 35 N77-19385
Method of crystallization --- in gravity-free environments
[NASA-CASE-MFS-23001-1] c 76 N77-32919
Passive propellant system
[NASA-CASE-MFS-23642-1] c 20 N80-10278
Method and apparatus for producing concentric hollow spheres --- inertial confinement fusion targets
[NASA-CASE-NPO-14596-1] c 31 N81-33319
Sample levitation and melt in microgravity
[NASA-CASE-NPO-17022-1-CU] c 29 N87-25489
- WEIGHTLESSNESS SIMULATION**
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Mass measuring system Patent
[NASA-CASE-XMS-03371] c 05 N70-42000
Harness assembly Patent
[NASA-CASE-MFS-14671] c 05 N71-12341
Whole body measurement systems --- for weightlessness simulation
[NASA-CASE-MSC-13972-1] c 52 N74-10975
Weightlessness simulation system and process
[NASA-CASE-ARC-11646-1] c 14 N87-25344
Hollow fiber clinoast: Technical abstract
[NASA-CASE-MFS-28370-1] c 35 N89-28793
- WELD STRENGTH**
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
- WELD TESTS**
Determination of spot weld quality Patent
[NASA-CASE-XNP-02588] c 15 N71-18613
Method and apparatus for swept-frequency impedance measurements of welds
[NASA-CASE-ARC-10176-1] c 15 N72-21464
- WELDED JOINTS**
Apparatus for welding blades to rotors
[NASA-CASE-LEW-10533-2] c 37 N74-11300
Ultrasonic scanning system for in-place inspection of brazed tube joints
[NASA-CASE-MFS-20767-1] c 38 N74-15130
Device for measuring the ferrite content in an austenitic stainless-steel weld
[NASA-CASE-MFS-22907-1] c 26 N76-18257
Capillary flow weld-bonding
[NASA-CASE-LAR-11726-1] c 37 N76-27568
Automated weld torch guidance control system
[NASA-CASE-MFS-25807-2] c 37 N86-21850
- WELDED STRUCTURES**
Grain refinement control in TIG arc welding
[NASA-CASE-MSC-19095-1] c 37 N75-19683
Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Bimetallic junctions
[NASA-CASE-LEW-11573-1] c 26 N77-28265
- WELDING**
Segmented back-up bar Patent
[NASA-CASE-XMF-00640] c 15 N70-39924
Flexible back-up bar Patent
[NASA-CASE-XMF-00722] c 15 N70-40204
Apparatus for welding sheet material --- butt joints
[NASA-CASE-XMS-01330] c 37 N75-27376
Weld-bonded titanium structures
[NASA-CASE-LAR-11549-1] c 37 N77-11397
Method and apparatus for holding two separate metal pieces together for welding
[NASA-CASE-GSC-12318-1] c 37 N80-23655
Automatic weld torch guidance control system
[NASA-CASE-MFS-25807] c 37 N83-20154
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Method of repairing hidden leaks in tubes
[NASA-CASE-MFS-19796-1] c 37 N86-32736
Alignment and assembly tool for very large diameter cylinders
[NASA-CASE-MFS-28001-2] c 37 N88-14360
Optically controlled welding system
[NASA-CASE-MFS-29291-1] c 37 N89-12868
- WELDING MACHINES**
Apparatus for welding torch angle and seam tracking control Patent
[NASA-CASE-XMF-03287] c 15 N71-15607
Automatic welding speed controller Patent
[NASA-CASE-XMF-01730] c 15 N71-23050
Electric welding torch Patent
[NASA-CASE-XMF-02330] c 15 N71-23798
Welding skate with computerized control Patent
[NASA-CASE-XMF-07069] c 15 N71-23815
Computerized system for translating a torch head
[NASA-CASE-MFS-23620-1] c 37 N79-10421
Welding torch with arc light reflector
[NASA-CASE-MFS-29134-1] c 74 N87-17493
Welding monitoring system
[NASA-CASE-MFS-29177-1] c 37 N88-14362
- WET CELLS**
Method and device for determining battery state of charge Patent
[NASA-CASE-NPO-10194] c 03 N71-20407
- WETTING**
Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471
- WHEATSTONE BRIDGES**
Self-balancing strain gage transducer Patent
[NASA-CASE-MFS-12827] c 14 N71-17656
Method for improving the signal-to-noise ratio of the Wheatstone bridge type bolometer Patent
[NASA-CASE-XLA-02810] c 14 N71-25901
Temperature control system with a pulse width modulated bridge
[NASA-CASE-NPO-11304] c 14 N73-26430
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NAS 1.71:NPO-15494-2] c 35 N85-34373
- WHEELS**
Non-backdrivable free wheeling coupling
[NASA-CASE-MSC-20475-1] c 37 N87-17037
- WHISKER COMPOSITES**
Reinforced metallic composites Patent
[NASA-CASE-XLE-00228] c 17 N70-38490
- WHISKERS (CRYSTALS)**
Catalyst for growth of boron carbide single crystal whiskers
[NASA-CASE-XHQ-03903] c 15 N69-21922
- WICKS**
Method of forming a wick for a heat pipe
[NASA-CASE-NPO-13391-1] c 34 N76-27515
Monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] c 34 N85-29180
Polymeric heat pipe wick
[NASA-CASE-GSC-13019-1] c 34 N88-29133
Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-15261
- WIDE ANGLE LENSES**
Wide angle long eye relief eyepiece Patent
[NASA-CASE-XMS-06056-1] c 23 N71-24857
- WIDEBAND COMMUNICATION**
Wideband heterodyne receiver for laser communication system
[NASA-CASE-GSC-12053-1] c 32 N77-28346
Multiple band circularly polarized microstrip antenna
[NASA-CASE-MSC-18334-1] c 32 N80-32604

WINCHES

Winch having cable position and load indicators Patent
[NASA-CASE-MSC-12052-1] c 15 N71-24599

WIND DIRECTION

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292

WIND EFFECTS

Viscous pendulum damper Patent
[NASA-CASE-LAR-10274-1] c 14 N71-17626
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND MEASUREMENT

Passive optical wind and turbulence detection system Patent
[NASA-CASE-XMF-14032] c 20 N71-16340
Maxometers (peak wind speed anemometers)
[NASA-CASE-MFS-20916] c 14 N73-25460
Wind sensor
[NASA-CASE-NPO-13462-1] c 35 N76-24524
Focused laser Doppler velocimeter
[NASA-CASE-MFS-23178-1] c 35 N77-10493
Wind measurement system
[NASA-CASE-MFS-23362-1] c 47 N77-10753

WIND PROFILES

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281

WIND SHEAR

CAT altitude avoidance system
[NASA-CASE-NPO-15351-1] c 06 N83-10040
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND TUNNEL APPARATUS

Wind tunnel airstream oscillating apparatus Patent
[NASA-CASE-XLA-00112] c 11 N70-33287
Electric arc device for heating gases Patent
[NASA-CASE-XAC-00319] c 25 N70-41628
Test unit free-flight suspension system Patent
[NASA-CASE-XLA-00939] c 11 N71-15926
Burst diaphragm flow initiator Patent
[NASA-CASE-MFS-12915] c 11 N71-17600
Electric arc apparatus Patent
[NASA-CASE-XAC-01677] c 09 N71-20816
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel microphone structure Patent
[NASA-CASE-XNP-00250] c 11 N71-28779
Wind tunnel
[NASA-CASE-LAR-10135-1] c 09 N79-21083
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

WIND TUNNEL CALIBRATION

Rotary target V-block
[NASA-CASE-LAR-12007-3] c 35 N84-16523

WIND TUNNEL DRIVES

Electric arc driven wind tunnel Patent
[NASA-CASE-XMF-00411] c 11 N70-36913

WIND TUNNEL MODELS

Flow field simulation Patent
[NASA-CASE-LAR-11138] c 12 N71-20436
Multilegged support system Patent
[NASA-CASE-XLA-01326] c 11 N71-21481
Model launcher for wind tunnels Patent
[NASA-CASE-XNP-03578] c 11 N71-23030
Wind tunnel model damper Patent
[NASA-CASE-XLA-09480] c 11 N71-33612
Wind tunnel model and method
[NASA-CASE-LAR-10812-1] c 09 N74-17955
Method for determining thermo-physical properties of specimens --- photographic recording of changes in thin film phase-change temperature indicating material in wind tunnel
[NASA-CASE-LAR-11053-1] c 25 N74-18551
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12458-1] c 44 N83-21503
Aeroelastic instability stoppers for wind tunnel models
[NASA-CASE-LAR-12720-1] c 44 N83-21504
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] c 09 N84-34448
Airfoil flutter model suspension system
[NASA-CASE-LAR-13522-1-SB] c 09 N87-25334

WIND TUNNEL NOZZLES

Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Wind tunnel supplementary Mach number minimum section insert
[NASA-CASE-LAR-12532-1] c 09 N82-11088

WIND TUNNEL TESTS

Metallic hot wire anemometer --- for high speed wind tunnel tests
[NASA-CASE-ARC-10911-1] c 35 N77-20400
Multi-purpose wind tunnel reaction control model block
[NASA-CASE-MSC-19706-1] c 09 N78-31129
Metric half-span model support system
[NASA-CASE-LAR-12441-1] c 09 N82-23254
Miniature remote dead weight calibrator
[NASA-CASE-LAR-13564-1] c 35 N87-25558
Device for quick changeover between wind tunnel force and pressure testing
[NASA-CASE-LAR-13512-1] c 35 N87-28884
Thermal remote anemometer system
[NASA-CASE-LAR-13508-1] c 35 N88-23962

WIND TUNNEL WALLS

Sound shield
[NASA-CASE-LAR-12883-1] c 71 N83-17235

WIND TUNNELS

Thin film gauge --- for measuring convective heat transfer rates along test surfaces in wind tunnels
[NASA-CASE-NPO-10617-1] c 35 N74-22095
Wind tunnel flow generation section
[NASA-CASE-ARC-10710-1] c 09 N75-12969
Apparatus for reducing aerodynamic noise in a wind tunnel
[NASA-CASE-MFS-23099-1] c 09 N76-23273
Static pressure orifice system testing method and apparatus
[NASA-CASE-LAR-12269-1] c 35 N80-18358

WIND TURBINES

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

WIND VELOCITY

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] c 47 N84-28292
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WIND VELOCITY MEASUREMENT

Wind velocity probing device and method Patent
[NASA-CASE-XLA-02081] c 20 N71-16281
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] c 06 N86-27280

WINDING

Conically shaped cavity radiometer with a dual purpose cone winding Patent
[NASA-CASE-XNP-09701] c 14 N71-26475
Pulse coupling circuit
[NASA-CASE-LEW-10433-1] c 09 N72-22197

WINDMILLS (WINDPOWERED MACHINES)

Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] c 37 N84-12493
Coupling an induction motor type generator to ac power lines --- making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] c 33 N84-33660

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Active microwave irises and windows
[NASA-CASE-LAR-10513-1] c 07 N72-25170
Observation window for a gas confining chamber
[NASA-CASE-NPO-10890] c 11 N73-12265
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] c 74 N85-29750
Double window viewing chamber assembly
[NASA-CASE-MFS-28057-1] c 09 N87-14355

WINDPOWER UTILIZATION

Amplified wind turbine apparatus
[NASA-CASE-MFS-23830-1] c 44 N82-24639
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] c 44 N84-23018

WINDPOWERED GENERATORS

Wind wheel electric power generator
[NASA-CASE-MFS-23515-1] c 44 N80-21828
Electrical power generating system --- for windpowered generation
[NASA-CASE-MFS-24368-3] c 33 N81-22280

WINDSHIELDS

Transparent fire resistant polymeric structures
[NASA-CASE-ARC-10813-1] c 27 N76-16230

WING CAMBER

Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

WING FLAPS

Jet aircraft configuration Patent
[NASA-CASE-XLA-00087] c 02 N70-33332
Slotted variable camber flap
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Variable-span aircraft Patent
[NASA-CASE-XLA-00166] c 02 N70-34178
Annular wing
[NASA-CASE-FRC-11007-2] c 05 N82-26277

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Solar powered aircraft
[NASA-CASE-LAR-12615-1] c 05 N84-12154

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Slotted variable camber flap
[NASA-CASE-LAR-12541-1] c 05 N84-22551

WING TIP VORTICES

Wingtip vortex dissipator for aircraft
[NASA-CASE-LAR-11645-1] c 02 N77-10001

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Smoke generator
[NASA-CASE-ARC-10905-1] c 37 N77-13418
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] c 07 N85-35194

WINGS

Ferry system
[NASA-CASE-LAR-10574-1] c 11 N73-13257
Surface finishing --- for aircraft wings
[NASA-CASE-MSC-12631-1] c 24 N77-28225
Free wing assembly for an aircraft
[NASA-CASE-FRC-10092-1] c 05 N79-12061
Detection of the transitional layer between laminar and turbulent flow areas on a wing surface --- using an accelerometer to measure pressure levels during wind tunnel tests
[NASA-CASE-LAR-12261-1] c 02 N80-20224
System for use in conducting wake investigation for a wing in flight --- differential pressure measurements for drag investigations
[NASA-CASE-FRC-11024-1] c 02 N80-28300
Means for controlling aerodynamically induced twist
[NASA-CASE-LAR-12175-1] c 05 N82-28279
Decoupler pylon: wing/store flutter suppressor
[NASA-CASE-LAR-12468-1] c 08 N82-32373
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] c 33 N86-20671
Remote pivot decoupler pylon: Wing/store flutter suppressor
[NASA-CASE-LAR-13173-1] c 05 N87-14314

WIRE

Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Soldering device Patent
[NASA-CASE-XLA-08911] c 15 N71-27214
Forming tool for ribbon or wire
[NASA-CASE-XLA-05966] c 15 N72-12408
Method of removing insulated material from insulated wires
[NASA-CASE-FRC-10038] c 15 N72-20444
Shielded flat cable
[NASA-CASE-MFS-13687-2] c 09 N72-22198
Butt welder for fine gauge tungsten/rhenium thermocouple wire
[NASA-CASE-LAR-10103-1] c 15 N73-14468
Method of fabricating a twisted composite superconductor
[NASA-CASE-LEW-11015] c 26 N73-32571
Joining lead wires to thin platinum alloy films
[NASA-CASE-LEW-13934-1] c 35 N83-35338
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] c 52 N84-34913
Electrode carrying wire for GTAW welding
[NASA-CASE-MFS-29491-1] c 31 N89-23738
Internal wire guide for GTAW welding
[NASA-CASE-MFS-29489-1] c 31 N89-23739
Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

WIRE BRIDGE CIRCUITS

Cavity radiometer Patent
[NASA-CASE-XNP-08961] c 14 N71-24809

WIRE CLOTH

Insulating structure Patent
[NASA-CASE-XMF-00341] c 15 N70-33323
Method of making screen by casting Patent
[NASA-CASE-XLE-00953] c 15 N71-15966

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Adjustable tension wire guide Patent
[NASA-CASE-XMS-02383] c 15 N71-15918
Superconducting alternator Patent
[NASA-CASE-XLE-02823] c 09 N71-23443
Electric motive machine including magnetic bearing
[NASA-CASE-XGS-07805] c 15 N72-33476
Laser measuring system for incremental assemblies --- measuring wire-wrapped frame assemblies in spark chambers
[NASA-CASE-GSC-12321-1] c 36 N82-16396

WIRELESS COMMUNICATION

- Silent emergency alarm system for schools and the like
[NASA-CASE-NPO-11307-1] c 10 N73-30205
- RF beam center location method and apparatus for power transmission system
[NASA-CASE-NPO-13821-1] c 44 N78-28594

WIRING

- Apparatus for testing wiring harness by vibration generating means
[NASA-CASE-MSC-15158-1] c 14 N72-17325
- Test apparatus for locating shorts during assembly of electrical buses
[NASA-CASE-ARC-11116-1] c 33 N82-24420
- Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] c 35 N84-33769

WOOD

- Method of radiographic inspection of wooden members
[NASA-CASE-LAR-13724-1] c 38 N88-23983

WOODEN STRUCTURES

- Structural wood panels with improved fire resistance
[NASA-CASE-ARC-11174-1] c 24 N81-13999

WORDS (LANGUAGE)

- Minimal logic block encoder Patent
[NASA-CASE-NPO-10595] c 10 N71-25917
- Parallel generation of the check bits of a PN sequence Patent
[NASA-CASE-XNP-04623] c 10 N71-26103
- Digital memory in which the driving of each word location is controlled by a switch core Patent
[NASA-CASE-XNP-01466] c 10 N71-26434

WORK HARDENING

- Method of producing complex aluminum alloy parts of high temper, and products thereof
[NASA-CASE-MSC-19693-1] c 26 N78-24333

WORKING FLUIDS

- Heat pipe with dual working fluids
[NASA-CASE-ARC-10198] c 34 N78-17336
- Thermochemical generation of hydrogen
[NASA-CASE-NPO-15015-1] c 25 N82-28368
- Heat pipes containing alkali metal working fluid
[NASA-CASE-LEW-12253-1] c 74 N83-19596
- Ceramic heat pipe wick
[NASA-CASE-GSC-13199-1] c 27 N90-15261

WORKSTATIONS

- Reconfigurable work station for a video display unit and keyboard
[NASA-CASE-MFS-26009-1-SB] c 54 N88-24163
- Dynamic resource allocation scheme for distributed heterogeneous computer systems
[NASA-CASE-NPO-17197-1-CU] c 62 N89-29976

WRENCHES

- Methods and apparatus employing vibratory energy for wrenching Patent
[NASA-CASE-MFS-20586] c 15 N71-17686
- System for enhancing tool-exchange capabilities of a portable wrench
[NASA-CASE-MFS-22283-1] c 37 N75-33395
- Zero torque gear head wrench
[NASA-CASE-NPO-13059-1] c 37 N76-20480
- High-torque open-end wrench
[NASA-CASE-NPO-13541-1] c 37 N79-14383

WRIST

- Wrist joint assembly
[NASA-CASE-MFS-23311-1] c 54 N78-17676

X**X RAY ABSORPTION**

- Medical clip
[NASA-CASE-LAR-12650-1] c 52 N84-28388

X RAY APPARATUS

- Device and method for determining X ray reflection efficiency of optical surfaces
[NASA-CASE-MFS-20243] c 23 N73-13662
- X-ray position detector
[NASA-CASE-NPO-12087-1] c 74 N81-19898

X RAY DIFFRACTION

- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950

X RAY IMAGERY

- Low intensity X-ray and gamma-ray imaging device --- fiber optics
[NASA-CASE-GSC-12263-1] c 74 N79-20857
- Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] c 74 N84-11920
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

X RAY INSPECTION

- Method of determining bond quality of power transistors attached to substrates --- X ray inspection of junction microstructure
[NASA-CASE-MFS-21931-1] c 37 N75-26372
- Apparatus for use in examining the lattice of a semiconductor wafer by X-ray diffraction
[NASA-CASE-MFS-23315-1] c 76 N78-24950
- X-ray determination of parts alignment
[NASA-CASE-MSC-20418-1] c 74 N86-20126

X RAY IRRADIATION

- Multiple environment materials test chamber having a multiple port X-ray tube for irradiating a plurality of samples Patent
[NASA-CASE-XMS-02930] c 11 N71-23042

X RAY SOURCES

- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765

X RAY SPECTROSCOPY

- Low intensity X-ray and gamma-ray spectrometer
[NASA-CASE-GSC-12587-1] c 35 N82-32659
- Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] c 35 N84-33765
- Method of fabricating an imaging X-ray spectrometer
[NASA-CASE-GSC-12956-1] c 35 N87-14671

X RAY TELESCOPES

- X-ray reflection collimator adapted to focus X-radiation directly on a detector Patent
[NASA-CASE-XHQ-04106] c 14 N70-40240
- Three mirror glancing incidence system for X-ray telescope
[NASA-CASE-MFS-21372-1] c 74 N74-27866
- Method of and means for testing a glancing-incidence mirror system of an X-ray telescope
[NASA-CASE-MFS-22409-2] c 74 N78-15880
- Extended range X-ray telescope
[NASA-CASE-MFS-25282-1] c 34 N83-19015
- Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] c 74 N86-20124
- Multispectral glancing incidence X-ray telescope
[NASA-CASE-MFS-28013-1] c 89 N86-22459

X RAYS

- Support structure for irradiated elements Patent
[NASA-CASE-XNP-06031] c 15 N71-15606
- Selective image area control of X-ray film exposure density
[NASA-CASE-NPO-13808-1] c 35 N78-15461
- Three-dimensional and tomographic imaging device for X-ray and gamma-ray emitting objects
[NASA-CASE-GSC-12851-1] c 35 N85-30281

X-Y PLOTTERS

- Contour surveying system Patent
[NASA-CASE-XLA-08646] c 14 N71-17586
- Particle parameter analyzing system --- x-y plotter circuits and display
[NASA-CASE-XLE-06094] c 33 N78-17293

X-15 AIRCRAFT

- Energy management system for glider type vehicle Patent
[NASA-CASE-XFR-00756] c 02 N71-13421

XENON

- Double photon excitation of high-Rydberg atoms as a long-lived submillimeter detector
[NASA-CASE-NPO-16372-1] c 72 N86-33127

XENON LAMPS

- Optical pump and driver system for lasers
[NASA-CASE-ERC-10283] c 16 N72-25485
- Purging means and method for Xenon arc lamps
[NASA-CASE-NPO-11978] c 31 N78-17238
- Multiple anode arc lamp system
[NASA-CASE-NPO-10857-1] c 33 N80-14330

Y**YAG LASERS**

- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Length controlled stabilized mode-lock ND:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499

YARNS

- Flexible pile thermal barrier insulator
[NASA-CASE-MSC-19568-1] c 34 N78-25350
- Lightweight electrically-powered flexible thermal laminate --- made of metal and nonconductive yarns
[NASA-CASE-MSC-12662-1] c 33 N79-12331

YAW

- Three-axis controller Patent
[NASA-CASE-XAC-01404] c 05 N70-41581
- Thrust augmented spin recovery device
[NASA-CASE-LAR-11970-2] c 08 N81-19130
- Actuated forebody strakes
[NASA-CASE-LAR-13983-1] c 05 N88-24628

YIELD STRENGTH

- High toughness-high strength iron alloy
[NASA-CASE-LEW-12542-3] c 26 N80-32484

YO-YO DEVICES

- Stretch de-spin mechanism Patent
[NASA-CASE-XGS-00619] c 30 N70-40016

YOKES

- Preloadable vector sensitive latch
[NASA-CASE-MSC-20910-1] c 37 N87-25582

YTTERBIUM

- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233

YTTRIUM

- Tm,Ho:YLF laser end-pumped by a semiconductor diode laser array
[NASA-CASE-NPO-17282-1-CU] c 36 N89-12856

Z**ZEOLITES**

- Filter system for control of outgas contamination in vacuum Patent
[NASA-CASE-MFS-14711] c 15 N71-26185

ZINC

- Potassium silicate zinc coatings
[NASA-CASE-GSC-10361-1] c 18 N72-23581
- Rechargeable battery which combats shape change of the zinc anode
[NASA-CASE-HQN-10862-1] c 44 N76-29699

ZINC COMPOUNDS

- Method of changing the conductivity of vapor deposited gallium arsenide by the introduction of water into the vapor deposition atmosphere Patent
[NASA-CASE-XNP-01961] c 26 N71-29156
- Synthesis of zinc titanate pigment and coatings containing the same
[NASA-CASE-MFS-13532] c 18 N72-17532
- Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127
- Zinc-halide battery with molten electrolyte
[NASA-CASE-NPO-11961-1] c 44 N76-18643
- Method of preparing zinc orthotitanate pigment
[NASA-CASE-MFS-23345-1] c 27 N77-30237

ZINC OXIDES

- Stabilized zinc oxide coating compositions Patent
[NASA-CASE-XMF-07770-2] c 18 N71-26772
- Method of forming transparent films of ZnO
[NASA-CASE-FRC-10019] c 15 N73-12487

ZIRCONIUM

- Zirconium modified nickel-copper alloy
[NASA-CASE-LEW-12245-1] c 26 N77-20201
- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Thermal barrier coating system
[NASA-CASE-LEW-14057-1] c 24 N85-35233
- Nickel base coating alloy
[NASA-CASE-LEW-13834-1] c 26 N87-14482

ZIRCONIUM CARBIDES

- Zirconium carbide as an electrocatalyst for the chromous-chromic redox couple
[NASA-CASE-LEW-13246-1] c 44 N83-27344

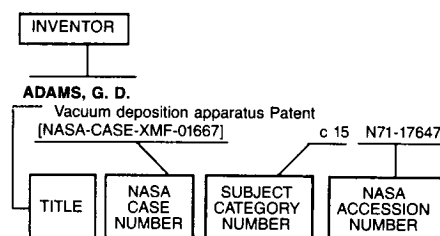
ZIRCONIUM OXIDES

- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-1] c 37 N75-15992
- Bonding of sapphire to sapphire by eutectic mixture of aluminum oxide and zirconium oxide
[NASA-CASE-GSC-11577-3] c 24 N79-25143

NASA PATENT ABSTRACTS BIBLIOGRAPHY
Section 2

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Typical Inventor Index Listing



Listings in this index are arranged alphabetically by inventor. The title of the document provides the user with a brief description of the subject matter. The NASA case number is the prime access point to patent documents. The subject category number indicates the category in Section 1 (Abstracts) in which the citation is located. The NASA accession number denotes the number by which the citation is identified within the subject category. The titles are arranged under each inventor in ascending accession number order.

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Low-noise nozzle valve
[NASA-CASE-MFS-28383-1] c 34 N90-17051

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Method and system for monitoring and displaying engine performance parameters
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Optical instruments
[NASA-CASE-MSC-14096-1] c 74 N74-15095

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Insert facing tool
[NASA-CASE-MFS-21485-1] c 37 N74-25968

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Interferometer-polarimeter
[NASA-CASE-NPO-11239] c 14 N73-12446

ABSHIRE, J. B.

Polarization compensator for optical communications
[NASA-CASE-GSC-11782-1] c 74 N76-30053
Geodetic distance measuring apparatus
[NASA-CASE-GSC-12609-1] c 36 N81-22344
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[NASA-CASE-GSC-12609-2] c 36 N83-29681
Optical distance measuring instrument
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Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] c 27 N84-27884
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[NASA-CASE-ARC-11413-1] c 27 N85-21348
Metal (2,4,4',4'') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455

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Process for preparing phthalocyanine polymer from imide containing bisphthalonitrile
[NASA-CASE-ARC-11511-2] c 27 N87-21112

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Photosensitive device to detect bearing deviation
Patent
[NASA-CASE-XNP-00438] c 21 N70-35089

Space vehicle attitude control Patent
[NASA-CASE-XNP-00465] c 21 N70-35395
Attitude control for spacecraft Patent
[NASA-CASE-XNP-02982] c 31 N70-41855
Anti-backlash circuit for hydraulic drive system Patent
[NASA-CASE-XNP-01020] c 03 N71-12260
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[NASA-CASE-XNP-05535] c 14 N71-23040

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[NASA-CASE-MSC-20910-1] c 37 N87-25582

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Two axis fluxgate magnetometer Patent
[NASA-CASE-GSC-10441-1] c 14 N71-27325
Controllable high voltage source having fast settling time
[NASA-CASE-GSC-11844-1] c 33 N75-19522

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Programmable physiological infusion
[NASA-CASE-ARC-10447-1] c 52 N74-22771

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[NASA-CASE-LEW-14795-1] c 74 N90-15733

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Pretreatment method for anti-wettable materials
[NASA-CASE-XMS-03537] c 15 N69-21471

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Vacuum deposition apparatus Patent
[NASA-CASE-XMF-01667] c 15 N71-17647
Evaporant source for vapor deposition Patent
[NASA-CASE-XMF-06065] c 15 N71-20395

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Miniature spectrally selective dosimeter
[NASA-CASE-LAR-12469-1] c 35 N83-21311

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High stability amplifier
[NASA-CASE-GSC-12646-1] c 33 N83-34191
High stability buffered phase comparator
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Impact absorbing blade mounts for variable pitch blades
[NASA-CASE-LEW-12313-1] c 37 N78-10468
Variable thrust nozzle for quiet turbofan engine and method of operating same
[NASA-CASE-LEW-12317-1] c 07 N78-17055
Gas turbine engine with convertible accessories
[NASA-CASE-LEW-12390-1] c 07 N78-17056
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-2] c 07 N78-18066
Gas turbine engine with recirculating bleed
[NASA-CASE-LEW-12452-1] c 07 N78-25089
Integrated gas turbine engine-nacelle
[NASA-CASE-LEW-12389-3] c 07 N79-14096

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Ultraviolet and thermally stable polymer compositions
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BOTTOMS, D. J.

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[NASA-CASE-XLE-2529-3] c 33 N74-20859

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[NASA-CASE-LEW-11065-2] c 44 N76-14600

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SMALL, J. G.

- Means for visually indicating flight paths of vehicles between the Earth, Venus, and Mercury Patent
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SMALL, W. J.

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[NASA-CASE-LAR-12250-1] c 14 N81-26161

SMIALEK, J. L.

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[NASA-CASE-LEW-13923-1] c 26 N85-35267

SMIALEK, JAMES L.

- Method of forming low cost, formable High T(subc) superconducting wire
[NASA-CASE-LEW-14676-2] c 76 N90-17454

SMIALEK, JAMES L.

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[NASA-CASE-NPO-15345-1] c 74 N84-23247

SMISER, L. W.

- Method for repair of thin glass coatings
[NASA-CASE-KSC-11097-1] c 27 N82-33520

SMITH, A. B.

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SMITH, C.

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[NASA-CASE-XNP-01753] c 08 N71-22897

SMITH, D.

- Brazing alloy Patent
[NASA-CASE-XNP-03063] c 17 N71-23365

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[NASA-CASE-LAR-10620-1] c 09 N72-25255

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[NASA-CASE-LAR-10670-1] c 06 N73-30097

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[NASA-CASE-LAR-10670-2] c 15 N74-27360

SMITH, EARNEST C.

- Cylindrical surface profile and diameter measuring tool and method
[NASA-CASE-MFS-28287-1] c 35 N88-23959

SMITH, G. E.

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[NASA-CASE-FRC-11068-1] c 35 N84-12443

SMITH, H. A.

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[NASA-CASE-XMS-06236] c 14 N71-21007

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[NASA-CASE-MSC-10954-1] c 54 N78-18761

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- Digital computing cardiachometer
[NASA-CASE-MFS-20284-1] c 52 N74-12778

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[NASA-CASE-MFS-25807] c 37 N83-20154

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[NASA-CASE-MFS-25807-2] c 37 N86-21850

SMITH, H. J.

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[NASA-CASE-KSC-10723-1] c 37 N75-13265

SMITH, J. A.

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[NASA-CASE-MSC-12737-1] c 24 N79-25142

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[NASA-CASE-XAR-01547] c 05 N69-21473

- Temperature compensated solid state differential amplifier Patent
[NASA-CASE-XAC-00435] c 09 N70-35440

- Transfer valve Patent
[NASA-CASE-XAC-01158] c 15 N71-23051

- Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent
[NASA-CASE-XAC-05422] c 04 N71-23185

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- Apparatus for damping operator induced oscillations of a controlled system
[NASA-CASE-FRC-11041-1] c 33 N82-18493

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[NASA-CASE-MSC-14773-1] c 35 N78-12390

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[NASA-CASE-XGS-01593] c 03 N70-35408

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[NASA-CASE-LEW-12760-1] c 07 N77-17059

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- Polarity sensitive circuit Patent
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[NASA-CASE-ARC-10721-1] c 27 N76-22376

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[NASA-CASE-ARC-11169-1] c 24 N79-24062

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[NASA-CASE-ARC-11310-1] c 27 N82-24339

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[NASA-CASE-ARC-11110-1] c 37 N82-24492
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[NASA-CASE-ARC-11641-1] c 24 N88-18628
- SMITH, N. J.**
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[NASA-CASE-XMF-04494-1] c 33 N79-33392
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[NASA-CASE-MFS-26000-1] c 74 N87-14971
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[NASA-CASE-XMS-04533] c 15 N71-23086
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[NASA-CASE-GSC-12804-1] c 33 N86-20668
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[NASA-CASE-GSC-11188-3] c 74 N74-20008
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[NASA-CASE-LEW-10518-1] c 24 N72-33681
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[NASA-CASE-XNP-01104] c 28 N70-39931
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[NASA-CASE-XLE-103477-1] c 28 N71-20330
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[NASA-CASE-XMS-04201] c 14 N71-22990
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[NASA-CASE-ARC-11510-1] c 35 N86-32697
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[NASA-CASE-MFS-23001-1] c 76 N77-32919
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[NASA-CASE-MFS-28142-1] c 25 N88-23845
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[NASA-CASE-XNP-09451] c 06 N71-26754
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[NASA-CASE-XNP-03332] c 09 N71-10618
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[NASA-CASE-XGS-01052] c 14 N71-15992
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[NASA-CASE-XNP-02748] c 08 N71-22749
- SOLTIS, D. G.**
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[NASA-CASE-XAC-00319] c 25 N70-41628
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[NASA-CASE-LAR-10241-1] c 54 N74-14845
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[NASA-CASE-LEW-13120-1] c 27 N82-28440
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[NASA-CASE-LEW-13028-1] c 27 N82-33521
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[NASA-CASE-LEW-12919-1] c 24 N83-10117
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[NASA-CASE-LEW-1335901] c 27 N83-31855
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[NASA-CASE-LEW-12919-2] c 70 N84-28565
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[NASA-CASE-LEW-14080-1] c 31 N85-20153
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[NASA-CASE-LEW-13881-1] c 20 N85-21256
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[NASA-CASE-LEW-14072-1] c 27 N86-19458
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[NASA-CASE-LEW-11632-2] c 35 N75-13213
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[NASA-CASE-LEW-11262-1] c 27 N74-13270
- SPANG, H. A., III**
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[NASA-CASE-MFS-20335-1] c 35 N74-10415
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[NASA-CASE-XMF-03511] c 15 N71-22799
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[NASA-CASE-MFS-21046-1] c 14 N73-27377
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[NASA-CASE-MFS-21010-1] c 05 N73-30078
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[NASA-CASE-MFS-20730-1] c 39 N74-13131
- SPIES, R.**
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[NASA-CASE-NPO-10890] c 11 N73-12265
- SPITZE, L. A.**
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[NASA-CASE-ARC-11053-1] c 25 N79-10162
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[NASA-CASE-XLA-03105] c 15 N69-27483
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[NASA-CASE-XLE-01604-2] c 15 N71-15610
- SPRECACE, R. P.**
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[NASA-CASE-NPO-13391-1] c 34 N76-27515
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[NASA-CASE-NPO-13676-1] c 60 N79-20751

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[NASA-CASE-XNP-00911] c 08 N70-41961
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[NASA-CASE-NPO-11631] c 10 N73-12244

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[NASA-CASE-KSC-10126] c 11 N71-24985
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[NASA-CASE-LAR-13220-1] c 34 N86-12547

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[NASA-CASE-LAR-13528-1] c 25 N88-29002

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[NASA-CASE-NPO-14231-1] c 46 N80-10709

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[NASA-CASE-GSC-11077-1] c 02 N73-13008

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[NASA-CASE-NPO-11429-1] c 74 N77-21941

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[NASA-CASE-NPO-16989-1-CU] c 35 N89-28794

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[NASA-CASE-LAR-13854-1-CU] c 04 N88-24621

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[NASA-CASE-LAR-12099-1] c 27 N80-16158
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[NASA-CASE-LAR-12640-1] c 27 N82-11206
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[NASA-CASE-LAR-12705-1] c 25 N82-26396
Elastomer toughened polyimide adhesives
[NASA-CASE-LAR-12775-1] c 27 N83-28240
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] c 24 N84-34571
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[NASA-CASE-LAR-12775-2] c 27 N85-21349
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[NASA-CASE-LAR-13226-1] c 27 N85-34282
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[NASA-CASE-LAR-13351-1] c 27 N86-31727

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[NASA-CASE-LAR-12054-2] c 27 N81-14078
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[NASA-CASE-LAR-12642-1] c 27 N81-29229
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[NASA-CASE-LAR-12640-1] c 27 N82-11206
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[NASA-CASE-LAR-12775-1] c 27 N83-28240
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[NASA-CASE-LAR-12858-1] c 27 N83-34041
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[NASA-CASE-LAR-12723-2] c 27 N84-22746
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[NASA-CASE-LAR-12980-1] c 27 N84-22749
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
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[NASA-CASE-LAR-12894-1] c 27 N85-20125
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[NASA-CASE-LAR-13226-1] c 27 N85-34282
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[NASA-CASE-LAR-13292-1] c 27 N86-24841
Process for preparing highly optically transparent/colorless aromatic polyimide film
[NASA-CASE-LAR-13351-1] c 27 N86-31727

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[NASA-CASE-LAR-12738-2] c 37 N85-30335

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[NASA-CASE-NPO-15651-1] c 43 N85-21723

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[NASA-CASE-NPO-14350-1] c 33 N80-14332

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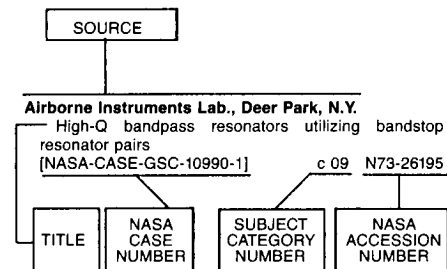
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[NASA-CASE-XNP-06957] c 14 N71-21088
- Miniature carbon dioxide sensor and methods
[NASA-CASE-MSC-13332-1] c 14 N72-21408
- Wedge immersed thermistor bolometers
[NASA-CASE-XGS-01245-1] c 35 N79-33449
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[NASA-CASE-FRC-10093-1] c 35 N80-20560
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[NASA-CASE-NPO-10774] c 06 N72-17095
- Porus electrode comprising a bonded stack of pieces of corrugated metal foil
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[NASA-CASE-GSC-11367-1] c 44 N74-19692
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[NASA-CASE-XMF-02786] c 17 N71-20743
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[NASA-CASE-XFR-05637] c 09 N71-19480
Pulse generating circuit employing switch means on ends of delay line for alternately charging and discharging same
Patent
[NASA-CASE-XNP-00745] c 10 N71-28960
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[NASA-CASE-NPO-11340] c 15 N72-33477
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[NASA-CASE-XMS-04843] c 03 N69-21469

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[NASA-CASE-LAR-10623-1] c 14 N73-30395

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[NASA-CASE-MSC-20418-1] c 74 N86-20126

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[NASA-CASE-GSC-11743-1] c 32 N75-24981
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[NASA-CASE-GSC-11744-1] c 33 N75-26243

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[NASA-CASE-XFR-00929] c 31 N70-34966
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[NASA-CASE-NPO-10046] c 28 N72-17843
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[NASA-CASE-ARC-11057-1] c 27 N78-31233
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[NASA-CASE-ARC-11039-1] c 74 N78-32854

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[NASA-CASE-HQN-10542-1] c 74 N75-25706

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[NASA-CASE-GSC-12171-1] c 33 N79-28416

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[NASA-CASE-MFS-20242] c 14 N73-19421

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[NASA-CASE-KSC-10278] c 05 N72-16015

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[NASA-CASE-LAR-12552-1] c 35 N82-11431

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[NASA-CASE-MSC-16841-1] c 34 N79-24285
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[NASA-CASE-MSC-16777-1] c 51 N80-27067

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[NASA-CASE-NPO-14416-1] c 44 N81-14389

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[NASA-CASE-KSC-10242] c 15 N72-23497

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[NASA-CASE-KSC-10723-1] c 37 N75-13265

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[NASA-CASE-MSC-16260-1] c 51 N80-16714

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[NASA-CASE-MSC-14180-1] c 52 N76-14757

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[NASA-CASE-NPO-10271] c 17 N71-16393
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[NASA-CASE-XLA-05966] c 15 N72-12408
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[NASA-CASE-NPO-10401] c 03 N72-20033
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[NASA-CASE-GSC-10303] c 15 N72-22487
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[NASA-CASE-NPO-10817-1] c 08 N73-30135
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[NASA-CASE-MFS-22906-1] c 75 N78-27913
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[NASA-CASE-LAR-11695-2] c 37 N81-24443
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[NASA-CASE-GSC-10019-1] c 44 N82-24641
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[NASA-CASE-GSC-10350-1] c 44 N82-24642
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[NASA-CASE-GSC-10017-1] c 44 N82-24643
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[NASA-CASE-MSC-13530-2] c 23 N75-14834

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[NASA-CASE-XMF-04966] c 14 N71-17658
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[NASA-CASE-XMF-01779] c 12 N71-20815
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[NASA-CASE-MFS-20619] c 28 N72-11708

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[NASA-CASE-XNP-02982] c 31 N70-41855
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[NASA-CASE-NPO-14641-1] c 32 N81-29308
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[NASA-CASE-NPO-14448-1] c 74 N81-29963
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[NASA-CASE-NPO-14542-1] c 25 N82-23282
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[NASA-CASE-NPO-15358-1] c 33 N83-27126
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[NASA-CASE-NPO-15210-1] c 25 N84-22709
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[NASA-CASE-NPO-15640-1] c 27 N84-22748
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[NASA-CASE-NPO-15465-1] c 34 N84-22903
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[NASA-CASE-NPO-15398-1] c 35 N84-22931
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[NASA-CASE-NPO-15516-1] c 36 N84-22943
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[NASA-CASE-NPO-15496-1] c 44 N84-23018
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[NASA-CASE-XNP-08907] c 23 N71-29123
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[NASA-CASE-HQN-10876-1] c 33 N76-27473
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[NASA-CASE-ARC-10991-1] c 25 N78-14104
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[NASA-CASE-ARC-10992-1] c 26 N78-32229
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[NASA-CASE-XLA-00189] c 33 N70-36846
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[NASA-CASE-GSC-10668-1] c 07 N71-28430

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[NASA-CASE-XNP-06032] c 09 N69-21926

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[NASA-CASE-MFS-23862-1] c 48 N80-18667

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[NASA-CASE-GSC-12808-1] c 25 N85-21279

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[NASA-CASE-XMF-01973] c 31 N70-41588

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[NASA-CASE-XNP-06914] c 15 N71-21489

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[NASA-CASE-XMF-03212] c 15 N71-22721

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[NASA-CASE-XNP-01848] c 15 N71-28959

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[NASA-CASE-XNP-02899-1] c 33 N79-21265

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[NASA-CASE-XGS-00740] c 07 N71-23098

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[NASA-CASE-LEW-10393-1] c 17 N71-15468

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[NASA-CASE-XNP-09770] c 15 N71-20440

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[NASA-CASE-XMS-04201] c 14 N71-22990

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[NASA-CASE-XNP-00952] c 10 N71-23271

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[NASA-CASE-XNP-06942] c 28 N71-23293

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[NASA-CASE-XNP-09770-3] c 11 N71-27036

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[NASA-CASE-GSC-11074-1] c 14 N73-28489

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Portable environmental control system Patent
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[NASA-CASE-XMS-05890] c 09 N71-23191

Water management system and an electrolytic cell therefor Patent
[NASA-CASE-MSC-10960-1] c 03 N71-24718

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[NASA-CASE-LAR-10270-1] c 32 N72-25877

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[NASA-CASE-MSC-13335-1] c 06 N72-31140

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[NASA-CASE-MSC-11072] c 54 N74-32546

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[NASA-CASE-XNP-04148] c 17 N71-24830

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[NASA-CASE-XFR-07658-1] c 05 N71-26293

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[NASA-CASE-LEW-12419-1] c 07 N77-14025

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[NASA-CASE-LEW-12760-1] c 07 N77-17059

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[NASA-CASE-LEW-12550-1] c 24 N77-19170

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[NASA-CASE-LEW-12830-1] c 07 N77-23106

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[NASA-CASE-LEW-12312-1] c 07 N77-32148

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Bearing seat usable in a gas turbine engine
[NASA-CASE-LEW-12477-1] c 37 N77-32501

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[NASA-CASE-LEW-12321-1] c 37 N78-10467

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[NASA-CASE-LEW-12313-1] c 37 N78-10468

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[NASA-CASE-LEW-12317-1] c 07 N78-17055

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- Automatic frequency discriminators and control for a phase-lock loop providing frequency preset capabilities Patent
[NASA-CASE-XMF-08665] c 10 N71-19467
- Method of purifying metallurgical grade silicon employing reduced pressure atmospheric control
[NASA-CASE-NPO-14474-1] c 26 N80-14229
- Quartz ball valve
[NASA-CASE-NPO-14473-1] c 37 N80-23654
- Method and apparatus for quadriphase-shift-key and linear phase modulation
[NASA-CASE-NPO-14444-1] c 33 N81-15192
- PN lock indicator for dithered PN code tracking loop
[NASA-CASE-NPO-14435-1] c 33 N81-33405

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- Sealed cabinetry Patent
[NASA-CASE-MSC-12168-1] c 09 N71-18600
- Digital frequency discriminator Patent
[NASA-CASE-MFS-14322] c 08 N71-18692
- Phase modulator Patent
[NASA-CASE-MSC-13201-1] c 07 N71-28429
- Capacitance multiplier and filter synthesizing network
[NASA-CASE-NPO-11948-1] c 33 N74-32712
- Quadrature demodulation
[NASA-CASE-GSC-12137-1] c 33 N78-32338
- Discriminator aided phase lock acquisition for suppressed carrier signals
[NASA-CASE-NPO-14311-1] c 33 N82-29539

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- Gyrator employing field effect transistors
[NASA-CASE-MFS-21433] c 09 N73-20232
- Suppression of flutter
[NASA-CASE-LAR-10682-1] c 02 N73-26004
- Optical data processing using paraboloidal mirror segments
[NASA-CASE-GSC-11296-1] c 23 N73-30666
- Power supply for carbon dioxide lasers
[NASA-CASE-GSC-11222-1] c 16 N73-32391
- High field CdS detector for infrared radiation
[NASA-CASE-LAR-11027-1] c 35 N74-18088
- Holography utilizing surface plasmon resonances
[NASA-CASE-MFS-22040-1] c 35 N74-26946
- Stagnation pressure probe
[NASA-CASE-LAR-11139-1] c 35 N74-32878
- Integrated P-channel MOS gyrator
[NASA-CASE-MFS-22343-1] c 33 N74-34638

Automated analysis of oxidative metabolites

- [NASA-CASE-ARC-10469-1] c 25 N75-12086
- Method of preparing water purification membranes
[NASA-CASE-ARC-10643-1] c 25 N75-12087
- Method of forming aperture plate for electron microscope
[NASA-CASE-ARC-10448-2] c 74 N75-12732
- Dually mode locked Nd:YAG laser
[NASA-CASE-GSC-11746-1] c 36 N75-19654
- Anti-gravity device
[NASA-CASE-MFS-22758-1] c 70 N75-26789
- Impact position detector for outer space particles
[NASA-CASE-GSC-11829-1] c 35 N75-27331
- Integrable power gyrator
[NASA-CASE-MFS-22342-1] c 33 N75-30428
- Two stage light gas-plasma projectile accelerator
[NASA-CASE-MFS-22287-1] c 75 N76-14931
- Micrometeoroid velocity and trajectory analyzer
[NASA-CASE-GSC-11892-1] c 35 N76-15433
- Moving particle composition analyzer
[NASA-CASE-GSC-11889-1] c 35 N76-16393
- Self-energized plasma compressor
[NASA-CASE-MFS-22145-2] c 75 N76-17951
- Readout electrode assembly for measuring biological impedance
[NASA-CASE-ARC-10816-1] c 35 N76-24525
- Electron microscope aperture system
[NASA-CASE-ARC-10448-3] c 35 N77-14408
- Method for making a hot wire anemometer and product thereof
[NASA-CASE-ARC-10900-1] c 35 N77-24454
- Length controlled stabilized mode-lock Nd:YAG laser
[NASA-CASE-GSC-11571-1] c 36 N77-25499
- Method of growing composites of the type exhibiting the Soret effect
[NASA-CASE-MFS-22926-1] c 24 N77-27187
- Method and apparatus for splitting a beam of energy
[NASA-CASE-GSC-12083-1] c 73 N78-32848
- Caniliver mounted resilient pad gas bearing
[NASA-CASE-LEW-12569-1] c 37 N79-10418
- Shock isolator for operating a diode laser on a closed-cycle refrigerator
[NASA-CASE-GSC-12297-1] c 37 N79-28549
- Pocket ECG electrode
[NASA-CASE-ARC-11258-1] c 52 N80-33081
- Subcutaneous electrode structure
[NASA-CASE-ARC-11117-1] c 52 N81-14612
- Microwave integrated circuit for Josephson voltage standards
[NASA-CASE-MFS-23845-1] c 33 N81-17348
- Autonomous navigation system
[NASA-CASE-ARC-11257-1] c 04 N81-21047
- Phosphorus-containing bisimide resins
[NASA-CASE-ARC-11321-1] c 27 N81-27272
- Synthesis of polyformals
[NASA-CASE-ARC-11244-1] c 23 N82-16174
- Nicral ternary alloy having improved cyclic oxidation resistance
[NASA-CASE-LEW-13339-1] c 26 N82-31505
- Massively parallel processor computer
[NASA-CASE-GSC-12223-1] c 60 N83-25378
- Non-invasive method and apparatus for measuring pressure within a pliable vessel
[NASA-CASE-ARC-11264-2] c 52 N83-29991
- Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] c 27 N84-14322
- Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] c 27 N84-22745
- Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] c 51 N84-28361
- Synthesis of 2,4,8,10-tetroxaspiro[5.5]undecane
[NASA-CASE-ARC-11243-2] c 23 N85-33187
- Fire-resistant phosphorus containing polyimides and copolyimides
[NASA-CASE-ARC-11522-2] c 27 N85-34280
- Metal (2,4,4',4') phthalocyanine tetraamines as curing agents for epoxy resins
[NASA-CASE-ARC-11424-1] c 27 N85-34281
- Toughening reinforced epoxy composites with brominated polymeric additives
[NASA-CASE-ARC-11427-1] c 24 N86-19380
- Metal phthalocyanine intermediates for the preparation of polymers
[NASA-CASE-ARC-11405-2] c 27 N86-19455
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- Optical spin compensator
[NASA-CASE-XGS-02401] c 14 N69-27485
- Waveguide mixer
[NASA-CASE-ERC-10179] c 07 N72-20141
- Semiconductor-ferroelectric memory device
[NASA-CASE-ERC-10307] c 08 N72-21198
- Shielded cathode mode bulk effect devices
[NASA-CASE-ERC-10119] c 26 N72-21701

Fabrication of single crystal film semiconductor devices			Propeller blade loading control Patent			Hard space suit Patent		
[NASA-CASE-ERC-10222]	c 09	N72-22199	[NASA-CASE-XAC-00139]	c 02	N70-34856	[NASA-CASE-XAC-07043]	c 05	N71-23161
Two color horizon sensor			Temperature compensated solid state differential amplifier Patent			Method and apparatus for continuously monitoring blood oxygenation, blood pressure, pulse rate and the pressure pulse curve utilizing an ear oximeter as transducer Patent		
[NASA-CASE-ERC-10174]	c 14	N72-25409	[NASA-CASE-XAC-00435]	c 09	N70-35440	[NASA-CASE-XAC-05422]	c 04	N71-23185
Ultraviolet atomic emission detector			High speed low level electrical stepping switch Patent			Feedback integrator with grounded capacitor Patent		
[NASA-CASE-HQN-10756-1]	c 14	N72-25428	[NASA-CASE-XAC-00060]	c 09	N70-39915	[NASA-CASE-XAC-10607]	c 10	N71-23669
Optical pump and driver system for lasers			Analog-to-digital conversion system Patent			Floating two force component measuring device Patent		
[NASA-CASE-ERC-10283]	c 16	N72-25485	[NASA-CASE-XAC-00404]	c 08	N70-40125	[NASA-CASE-XAC-04885]	c 14	N71-23790
Clear air turbulence detector			Null-type vacuum microbalance Patent			Control device Patent		
[NASA-CASE-ERC-10081]	c 14	N72-28437	[NASA-CASE-XAC-00472]	c 15	N70-40180	[NASA-CASE-XAC-10019]	c 15	N71-23809
Head-up attitude display			Thermo-protective device for balances Patent			Means for suppressing or attenuating bending motion of elastic bodies Patent		
[NASA-CASE-ERC-10392]	c 21	N73-14692	[NASA-CASE-XAC-00648]	c 14	N70-40400	[NASA-CASE-XAC-05632]	c 32	N71-23971
System for indicating direction of intruder aircraft			Three-axis controller Patent			Device for measuring pressure Patent		
[NASA-CASE-ERC-10226-1]	c 14	N73-16483	[NASA-CASE-XAC-01404]	c 05	N70-41581	[NASA-CASE-XAC-04458]	c 14	N71-24232
Aircraft control system			Electric arc device for heating gases Patent			Transducer circuit and catheter transducer Patent		
[NASA-CASE-ERC-10439]	c 02	N73-19004	[NASA-CASE-XAC-00319]	c 25	N70-41628	[NASA-CASE-ARC-10132-1]	c 09	N71-24597
Display system			Dynamic sensor Patent			Skeletal stressing method and apparatus Patent		
[NASA-CASE-ERC-10350]	c 14	N73-20474	[NASA-CASE-XAC-02877]	c 14	N70-41681	[NASA-CASE-ARC-10100-1]	c 05	N71-24738
Method and apparatus for measuring solar activity and atmospheric radiation effects			Universal pilot restraint suit and body support therefor Patent			Modified polyurethane foams for fuel-fire Patent		
[NASA-CASE-ERC-10276]	c 14	N73-26432	[NASA-CASE-XAC-00405]	c 05	N70-41819	[NASA-CASE-ARC-10098-1]	c 06	N71-24739
Doppler shift system			Proportional controller Patent			Deep space monitor communication satellite system Patent		
[NASA-CASE-HQN-10740-1]	c 72	N74-19310	[NASA-CASE-XAC-03392]	c 03	N70-41954	[NASA-CASE-XAC-06029-1]	c 31	N71-24813
Auditory display for the blind			Force transducer Patent			Laser fluid velocity detector Patent		
[NASA-CASE-HQN-10832-1]	c 71	N74-21014	[NASA-CASE-XAC-01101]	c 14	N70-41957	[NASA-CASE-XAC-10770-1]	c 16	N71-24828
Laser system with an antiresonant optical ring			Electrode construction Patent			Transient video signal recording with expanded playback Patent		
[NASA-CASE-HQN-10844-1]	c 36	N75-19653	[NASA-CASE-ARC-10043-1]	c 05	N71-11193	[NASA-CASE-ARC-10003-1]	c 09	N71-25866
Physical correction filter for improving the optical quality of an image			Telemeter adaptable for implanting in an animal Patent			Thermally cycled magnetometer Patent		
[NASA-CASE-HQN-10542-1]	c 74	N75-25706	[NASA-CASE-XAC-05706]	c 05	N71-12342	[NASA-CASE-XAC-03740]	c 14	N71-26135
Folding structure fabricated of rigid panels			Gyrotor type circuit Patent			Optical machine tool alignment indicator Patent		
[NASA-CASE-XHQ-02146]	c 18	N75-27040	[NASA-CASE-XAC-10608-1]	c 09	N71-12517	[NASA-CASE-XAC-09489-1]	c 15	N71-26673
Traveling wave solid state amplifier utilizing a semiconductor with negative differential mobility			Ultraviolet resonance lamp Patent			Energy limiter for hydraulic actuators Patent		
[NASA-CASE-HQN-10069]	c 33	N75-27251	[NASA-CASE-ARC-10030]	c 09	N71-12521	[NASA-CASE-ARC-10131-1]	c 15	N71-27754
Vapor deposition apparatus			Differential temperature transducer Patent			Multivibrator circuit with means to prevent false triggering from supply voltage fluctuations Patent		
[NASA-CASE-HQN-10462]	c 25	N75-29192	[NASA-CASE-XAC-00812]	c 14	N71-15598	[NASA-CASE-ARC-10137-1]	c 09	N71-28468
Resistive anode image converter			Multiple circuit switch apparatus with improved pivot actuator structure Patent			Locomotion and restraint aid Patent		
[NASA-CASE-HQN-10876-1]	c 33	N76-27473	[NASA-CASE-XAC-03777]	c 10	N71-15909	[NASA-CASE-ARC-10153]	c 05	N71-28619
Rechargeable battery which combats shape change of the zinc anode			Method of planetary atmospheric investigation using a split-trajectory dual flyby mode Patent			Line following servosystem Patent		
[NASA-CASE-HQN-10862-1]	c 44	N76-29699	[NASA-CASE-XAC-08494]	c 30	N71-15990	[NASA-CASE-XAC-00001]	c 15	N71-28952
System and method for tracking a signal source			High efficiency multivibrator Patent			Mechanically limited, electrically operated hydraulic valve system for aircraft controls Patent		
[NASA-CASE-HQN-10880-1]	c 17	N78-17140	[NASA-CASE-XAC-00942]	c 10	N71-16042	[NASA-CASE-XAC-00048]	c 02	N71-29128
Non-equilibrium radiation nuclear reactor			Apparatus for measuring conductivity and velocity of plasma utilizing a plurality of sensing coils positioned in the plasma Patent			Precision rectifier with FET switching means Patent		
[NASA-CASE-HQN-10841-1]	c 73	N78-19920	[NASA-CASE-XAC-05695]	c 25	N71-16073	[NASA-CASE-ARC-10101-1]	c 09	N71-33109
Cooling system for removing metabolic heat from an hermetically sealed spacesuit			Flight craft Patent			Solar cell Patent		
[NASA-CASE-ARC-11059-1]	c 54	N78-32721	[NASA-CASE-XAC-02058]	c 02	N71-16087	[NASA-CASE-ARC-10050]	c 03	N71-33409
Safety flywheel			Three-axis finger tip controller for switches Patent			Phase shift circuit apparatus		
[NASA-CASE-HQN-10888-1]	c 44	N79-14527	[NASA-CASE-XAC-02405]	c 09	N71-16089	[NASA-CASE-ARC-10269-1]	c 10	N72-16172
Flow diverter valve and flow diversion method			Electrostatic charged particle analyzer having deflection members shaped according to the periodic voltage applied thereto Patent			High intensity radiant energy pulse source having means for opening shutter when light flux has reached a desired level		
[NASA-CASE-HQN-00573-1]	c 37	N79-33468	[NASA-CASE-XAC-05506-1]	c 24	N71-16095	[NASA-CASE-ARC-10178-1]	c 09	N72-17152
Glass compositions with a high modulus of elasticity			Inertial reference apparatus Patent			Telemetry actuated switch		
[NASA-CASE-HQN-10274-1]	c 27	N82-29451	[NASA-CASE-XAC-03107]	c 23	N71-16098	[NASA-CASE-ARC-10105]	c 09	N72-17153
High modulus invert analog glass compositions containing beryllia			Fastener apparatus Patent			Active RC networks		
[NASA-CASE-HQN-10931-2]	c 27	N82-29452	[NASA-CASE-ARC-10140-1]	c 15	N71-17653	[NASA-CASE-ARC-10020]	c 10	N72-17172
Non-toxic invert analog glass compositions of high modulus			Stabilization of gravity oriented satellites Patent			Apparatus for automatically stabilizing the attitude of a nonguided vehicle		
[NASA-CASE-HQN-10328-2]	c 27	N82-29454	[NASA-CASE-XAC-01591]	c 31	N71-17729	[NASA-CASE-ARC-10134]	c 30	N72-17873
High modulus rare earth and beryllium containing silicate glass compositions			Microwave flaw detector Patent			Method and apparatus for swept-frequency impedance measurements of welds		
[NASA-CASE-HQN-10595-1]	c 27	N82-29455	[NASA-CASE-XAC-10009-1]	c 15	N71-17822	[NASA-CASE-ARC-10176-1]	c 15	N72-21464
High resistance and raised modulus carbon fibers			Hypervelocity gun Patent			Space suit having improved waist and torso movement		
[NASA-TM-76884]	c 24	N85-25436	[NASA-CASE-XAC-05902]	c 11	N71-18578	[NASA-CASE-ARC-10275-1]	c 05	N72-22092
National Aeronautics and Space Administration. Ames Research Center, Moffett Field, CA.								
Nonmagnetic thermal motor for a magnetometer			Nonlinear analog-to-digital converter Patent			RF controlled solid state switch		
[NASA-CASE-XAR-03786]	c 09	N69-21313	[NASA-CASE-XAC-04031]	c 08	N71-18594	[NASA-CASE-ARC-10136-1]	c 09	N72-22202
Balanced bellows spirometer			Demodulation system Patent			Wide range dynamic pressure sensor		
[NASA-CASE-XAR-01547]	c 05	N69-21473	[NASA-CASE-XAC-04030]	c 10	N71-19472	[NASA-CASE-ARC-10263-1]	c 14	N72-22438
Cryogenic apparatus for measuring the intensity of magnetic fields			Phase quadrature-plural channel data transmission system Patent			Method and apparatus for measuring the damping characteristics of a structure		
[NASA-CASE-XAC-02407]	c 14	N69-27423	[NASA-CASE-XAC-06302]	c 08	N71-19763	[NASA-CASE-ARC-10154-1]	c 14	N72-22440
Variable stiffness polymeric damper			Two force component measuring device Patent			Magnetic position detection method and apparatus		
[NASA-CASE-XAC-11225]	c 14	N69-27486	[NASA-CASE-XAC-04886-1]	c 14	N71-20439	[NASA-CASE-ARC-10179-1]	c 21	N72-22619
Shock-layer radiation measurement			Attitude controls for VTOL aircraft Patent			Fluidic proportional thruster system		
[NASA-CASE-XAC-02970]	c 14	N69-39896	[NASA-CASE-XAC-08972]	c 02	N71-20570	[NASA-CASE-ARC-10106-1]	c 28	N72-22769
Protective circuit of the spark gap type			Electric arc apparatus Patent			Thermoelectric radiometer utilizing polymer film		
[NASA-CASE-XAC-08981]	c 09	N69-39897	[NASA-CASE-XAC-01677]	c 09	N71-20816	[NASA-CASE-ARC-10138-1]	c 14	N72-24477
Apparatus for coupling a plurality of ungrounded circuits to a grounded circuit Patent			Inertia diaphragm pressure transducer Patent			Polymeric vehicles as carriers for sulfonic acid salt of nitrosubstituted aromatic amines		
[NASA-CASE-XAC-00086]	c 09	N70-33182	[NASA-CASE-XAC-02981]	c 14	N71-21072	[NASA-CASE-ARC-10325]	c 06	N72-25147
Two-plane balance Patent			Stirring apparatus for plural test tubes Patent			Stereoscopic television system and apparatus		
[NASA-CASE-XAC-00073]	c 14	N70-34813	[NASA-CASE-XAC-06956]	c 15	N71-21177	[NASA-CASE-ARC-10160-1]	c 23	N72-27728
Centrifuge mounted motion simulator Patent			Exposure system for animals Patent			Metallic intrusion detector system		
[NASA-CASE-XAC-00399]	c 11	N70-34815	[NASA-CASE-XAC-05333]	c 11	N71-22875	[NASA-CASE-ARC-10265-1]	c 10	N72-28240
Differential pressure cell Patent			Vibrating element electrometer with output signal magnified over input signal by a function of the mechanical Q of the vibrating element Patent			Apparatus for ionization analysis		
[NASA-CASE-XAC-00042]	c 14	N70-34816	[NASA-CASE-XAC-02807]	c 09	N71-23021	[NASA-CASE-ARC-10017-1]	c 14	N72-29464
High-temperature, high-pressure spherical segment valve Patent			Hall current measuring apparatus having a series resistor for temperature compensation Patent					
[NASA-CASE-XAC-00074]	c 15	N70-34817	[NASA-CASE-XAC-01662]	c 14	N71-23037			
Magnetically centered liquid column float Patent			Transfer valve Patent					
[NASA-CASE-XAC-00030]	c 14	N70-34820	[NASA-CASE-XAC-01158]	c 15	N71-23051			

Nondispersive gas analyzing method and apparatus wherein radiation is serially passed through a reference and unknown gas
 [NASA-CASE-ARC-10308-1] c 06 N72-31141
 Two degree inverted flexure
 [NASA-CASE-ARC-10345-1] c 15 N73-12488
 Intumescent paint containing nitrile rubber
 [NASA-CASE-ARC-10196-1] c 18 N73-13562
 Temperature compensated light source using a light emitting diode
 [NASA-CASE-ARC-10467-1] c 09 N73-14214
 Self-tuning bandpass filter
 [NASA-CASE-ARC-10264-1] c 09 N73-20231
 Micrometeoroid analyzer
 [NASA-CASE-ARC-10443-1] c 14 N73-20477
 Multiple pass reimagining optical system
 [NASA-CASE-ARC-10194-1] c 23 N73-20741
 Intruder detection system
 [NASA-CASE-ARC-10097-2] c 07 N73-25160
 Interferometric rotation sensor
 [NASA-CASE-ARC-10278-1] c 14 N73-25463
 Dual-fuselage aircraft having yawable wing and horizontal stabilizer
 [NASA-CASE-ARC-10470-1] c 02 N73-26005
 Temperature controller for a fluid cooled garment
 [NASA-CASE-ARC-10599-1] c 05 N73-26071
 Visual examination apparatus
 [NASA-CASE-ARC-10329-1] c 05 N73-26072
 Intumescent composition, foamed product prepared therewith, and process for making same
 [NASA-CASE-ARC-10304-1] c 18 N73-26572
 Infrared tunable laser
 [NASA-CASE-ARC-10463-1] c 09 N73-32111
 Low power electromagnetic flowmeter providing accurate zero set
 [NASA-CASE-ARC-10362-1] c 14 N73-32326
 Hand-held photomicroscope
 [NASA-CASE-ARC-10468-1] c 14 N73-33361
 Alignment apparatus using a laser having a gravitationally sensitive cavity reflector
 [NASA-CASE-ARC-10444-1] c 16 N73-33397
 Polyimide foam for the thermal insulation and fire protection
 [NASA-CASE-ARC-10464-1] c 27 N74-12812
 Flexible fire retardant polyisocyanate modified neoprene foam
 [NASA-CASE-ARC-10180-1] c 27 N74-12814
 Heater-mixer for stored fluids
 [NASA-CASE-ARC-10442-1] c 35 N74-15093
 Bimetallic fluid displacement apparatus
 [NASA-CASE-ARC-10441-1] c 35 N74-15126
 Automatic real-time pair-feeding system for animals
 [NASA-CASE-ARC-10302-1] c 51 N74-15778
 Overvoltage protection network
 [NASA-CASE-ARC-10197-1] c 33 N74-17929
 Ultrasonic biomedical measuring and recording apparatus
 [NASA-CASE-ARC-10597-1] c 52 N74-20726
 Ultraviolet and thermally stable polymer compositions
 [NASA-CASE-ARC-10592-1] c 27 N74-21156
 High speed shutter
 [NASA-CASE-ARC-10516-1] c 70 N74-21300
 Bio-isolated dc operational amplifier
 [NASA-CASE-ARC-10596-1] c 33 N74-21851
 Programmable physiological infusion
 [NASA-CASE-ARC-10447-1] c 52 N74-22771
 Chromato-fluorographic drug detector
 [NASA-CASE-ARC-10633-1] c 25 N74-26947
 Intumescent composition, foamed product prepared therewith and process for making same
 [NASA-CASE-ARC-10304-2] c 27 N74-27037
 Photomultiplier circuit including means for rapidly reducing the sensitivity thereof
 [NASA-CASE-ARC-10593-1] c 33 N74-27682
 Concentric differential gearing arrangement
 [NASA-CASE-ARC-10462-1] c 37 N74-27901
 Measurement of plasma temperature and density using radiation absorption
 [NASA-CASE-ARC-10598-1] c 75 N74-30156
 Abating exhaust noises in jet engines
 [NASA-CASE-ARC-10712-1] c 07 N74-33218
 Solid medium thermal engine
 [NASA-CASE-ARC-10461-1] c 44 N74-33379
 Automated analysis of oxidative metabolites
 [NASA-CASE-ARC-10469-1] c 25 N75-12086
 Method of preparing water purification membranes
 [NASA-CASE-ARC-10643-1] c 25 N75-12087
 Method of forming aperture plate for electron microscope
 [NASA-CASE-ARC-10448-2] c 74 N75-12732
 Integrated lift/drag controller for aircraft
 [NASA-CASE-ARC-10456-1] c 05 N75-12930
 Wind tunnel flow generation section
 [NASA-CASE-ARC-10710-1] c 09 N75-12969
 Continuous Fourier transform method and apparatus
 [NASA-CASE-ARC-10466-1] c 60 N75-13539

Dual wavelength scanning Doppler velocimeter
 [NASA-CASE-ARC-10637-1] c 35 N75-16783
 Signal conditioning circuit apparatus
 [NASA-CASE-ARC-10348-1] c 33 N75-19518
 Diode-quad bridge circuit means
 [NASA-CASE-ARC-10364-3] c 33 N75-19520
 Reversed cowl flap inlet thrust augmentor
 [NASA-CASE-ARC-10754-1] c 07 N75-24736
 Diode-quad bridge circuit means
 [NASA-CASE-ARC-10364-2] c 33 N75-25041
 Rotary plant growth accelerating apparatus
 [NASA-CASE-ARC-10722-1] c 51 N75-25503
 Shoulder harness and lap belt restraint system
 [NASA-CASE-ARC-10519-2] c 05 N75-25915
 Gas chromatograph injection system
 [NASA-CASE-ARC-10344-2] c 35 N75-26334
 Reference apparatus for medical ultrasonic transducer
 [NASA-CASE-ARC-10753-1] c 54 N75-27760
 Electric arc light source having undercut recessed anode
 [NASA-CASE-ARC-10266-1] c 33 N75-29318
 G-load measuring and indicator apparatus
 [NASA-CASE-ARC-10806-1] c 35 N75-29381
 NDIR gas analyzer based on absorption modulation ratios for known and unknown samples
 [NASA-CASE-ARC-10802-1] c 35 N75-30502
 Diatomic infrared gasdynamic laser
 [NASA-CASE-ARC-10370-1] c 36 N75-31426
 Pneumatic load compensating or controlling system
 [NASA-CASE-ARC-10907-1] c 37 N75-32465
 Combined dual scatter, local oscillator laser Doppler velocimeter
 [NASA-CASE-ARC-10642-1] c 36 N76-14447
 Fiber modified polyurethane foam for ballistic protection
 [NASA-CASE-ARC-10714-1] c 27 N76-15310
 Transparent fire resistant polymeric structures
 [NASA-CASE-ARC-10813-1] c 27 N76-16230
 Modulated hydrogen ion flame detector
 [NASA-CASE-ARC-10322-1] c 35 N76-18403
 Electrical conductivity cell and method for fabricating the same
 [NASA-CASE-ARC-10810-1] c 33 N76-19339
 Method and apparatus for compensating reflection losses in a path length modulated absorption-absorption trace gas detector
 [NASA-CASE-ARC-10631-1] c 74 N76-20958
 Trielectrode capacitive pressure transducer
 [NASA-CASE-ARC-10711-2] c 33 N76-21390
 Nulling device for detection of trace gases by NDIR absorption
 [NASA-CASE-ARC-10760-1] c 25 N76-22323
 Silica reusable surface insulation
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Sulfone-ester polymers containing pendent ethynyl groups			Miniature remote dead weight calibrator			Ultrasonic method and apparatus for determining crack opening load		
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Optimized bolted joint			Vapor fragrancier			Control surface actuator		
[NASA-CASE-LAR-13250-1]	c 37	N86-27630	[NASA-CASE-LAR-13680-1]	c 35	N87-25561	[NASA-CASE-LAR-12852-1]	c 05	N89-11738
Process for preparing essentially colorless polyimide film containing phenoxy-linked diamines			Preloaded space structural coupling joints			Polyphenylquinoxalines via aromatic nucleophilic displacement		
[NASA-CASE-LAR-13353-1]	c 27	N86-29039	[NASA-CASE-LAR-13489-1]	c 18	N87-27713	[NASA-CASE-LAR-13988-1]	c 23	N89-11814
Nebulization reflux concentrator			Lightweight piston			Method for laminar boundary layer transition visualization in flight		
[NASA-CASE-LAR-13254-1CU]	c 35	N86-29174	[NASA-CASE-LAR-13150-1]	c 24	N87-27742	[NASA-CASE-LAR-13554-1]	c 02	N89-12551
Long gain length solar pumped box laser			Semi-2-interpenetrating networks of high temperature systems			Polynamines from aromatic diacetylenic diketones and diamines		
[NASA-CASE-LAR-13256-1]	c 36	N86-29204	[NASA-CASE-LAR-13450-1]	c 27	N87-28657	[NASA-CASE-LAR-13444-2-CU]	c 23	N89-12667
Process for preparing highly optically transparent/colorless aromatic polyimide film			Flat-panel, full-color, electroluminescent display			Cryogenic insulation system		
[NASA-CASE-LAR-13351-1]	c 27	N86-31727	[NASA-CASE-LAR-13407-1]	c 33	N87-28831	[NASA-CASE-LAR-13506-1]	c 27	N89-12741
Polyarylene ethers with improved properties			Device for quick changeover between wind tunnel force and pressure testing			Truss-core corrugation for compressive loads		
[NASA-CASE-LAR-13555-1]	c 23	N86-32526	[NASA-CASE-LAR-13512-1]	c 35	N87-28884	[NASA-CASE-LAR-13438-1]	c 31	N89-12786
Remotely controllable mixing system			Mobile remote manipulator vehicle system			Porous plug for reducing orifice induced pressure error in airfoils		
[NASA-CASE-MFS-28153-1]	c 31	N86-32589	[NASA-CASE-LAR-13393-1]	c 54	N87-29118	[NASA-CASE-LAR-13569-1]	c 35	N89-12841
Two-axis, self-nulling skin friction balance			Procedure to prepare transparent silica gels			Pultrusion die assembly		
[NASA-CASE-LAR-13294-1]	c 35	N86-32696	[NASA-CASE-LAR-13476-1-CU]	c 76	N87-29360	[NASA-CASE-LAR-13719-1]	c 37	N89-12867
Deployable M-braced truss structure			Braille reading system			Low dielectric fluorinated poly(phenylene ether ketone) film and coating		
[NASA-CASE-LAR-13081-1]	c 37	N86-32737	[NASA-CASE-LAR-13306-1]	c 82	N87-29372	[NASA-CASE-LAR-13992-1-CU]	c 23	N89-13496
Remote pivot decoupler pylon: Wing/store flutter suppressor			Earth-to-orbit vehicle providing a reusable orbital stage and method of utilizing same			Method and apparatus for determining optical absorption and emission characteristics of a crystal or non-crystalline fiber		
[NASA-CASE-LAR-13173-1]	c 05	N87-14314	[NASA-CASE-LAR-13486-1]	c 16	N87-29582	[NASA-CASE-LAR-13963-1]	c 76	N89-14119
Synchronously deployable double fold beam and planar truss structure			Space vehicle thermal rejection system			High lift, low pitching moment airfoils		
[NASA-CASE-LAR-13490-1]	c 18	N87-14413	[NASA-CASE-LAR-13738-1]	c 18	N87-29586	[NASA-CASE-LAR-13215-1]	c 02	N89-14224
The 5-(4-Ethynylphenoxy) isophthalic chloride			Elevated temperature aluminum alloys			Passive venting technique for shallow cavities		
[NASA-CASE-LAR-13316-2]	c 27	N87-14515	[NASA-CASE-LAR-13632-1]	c 26	N87-29650	[NASA-CASE-LAR-13875-1]	c 05	N89-14233
Acetylene (ethynyl) terminated polyimide siloxane and process for preparation thereof			Combined riblet and lebu drag reduction system			Method of inseting predesigned disbond areas into composite laminates		
[NASA-CASE-LAR-13318-1]	c 27	N87-14516	[NASA-CASE-LAR-13286-1]	c 02	N88-14071	[NASA-CASE-LAR-13225-1]	c 24	N89-14258
Double reference pulsed phase locked loop			Lightning discharge protection rod			Polyphenylquinoxalines containing alkylendioxy groups		
[NASA-CASE-LAR-13310-1]	c 32	N87-14559	[NASA-CASE-LAR-13470-1]	c 03	N88-14083	[NASA-CASE-LAR-13601-1-CU]	c 27	N89-14337
Vibration-free Raman Doppler velocimeter			Tool and process for miniature explosive joining of tubes			Frequency domain laser velocimeter signal processor		
[NASA-CASE-LAR-13268-1]	c 35	N87-14669	[NASA-CASE-LAR-13662-1]	c 37	N88-14359	[NASA-CASE-LAR-13552-1-CU]	c 33	N89-14385
Geometries for roughness shapes in laminar flow			Device for measuring hole elongation in a bolted joint			Ultrasonic depth gauge for liquids under high pressure		
[NASA-CASE-LAR-13255-1]	c 02	N87-16793	[NASA-CASE-LAR-13453-1]	c 37	N88-14361	[NASA-CASE-LAR-13300-1-CU]	c 35	N89-14407
Over-the-wing propeller			Polyether-polyester graft copolymer			Circumferential pressure probe		
[NASA-CASE-LAR-13134-2]	c 07	N87-16828	[NASA-CASE-LAR-13447-1]	c 27	N88-18725	[NASA-CASE-LAR-13775-1]	c 35	N89-14408
Single frequency multitransmitter telemetry			Crossflow vorticity sensor			Pressure measuring probe		
[NASA-CASE-LAR-13006-1]	c 17	N87-16863	[NASA-CASE-LAR-13436-1-CU]	c 02	N88-23759	[NASA-CASE-LAR-13853-1]	c 35	N89-14423
Ethynyl terminated ester oligomers and polymers therefrom			Multi-body aircraft with an all-movable center fuselage actively controlling fuselage pressure drag			Method and apparatus for reducing speckle		
[NASA-CASE-LAR-13118-2]	c 27	N87-16907	[NASA-CASE-LAR-13511-1]	c 05	N88-23765	[NASA-CASE-LAR-13771-1]	c 36	N89-14428
Seamless metal-clad fiber-reinforced organic matrix composite structures and process for their manufacture			Helicopter anti-torque system using fuselage strakes			Method and system for monitoring and displaying engine performance parameters		
[NASA-CASE-LAR-13562-1]	c 24	N87-18613	[NASA-CASE-LAR-13630-1]	c 08	N88-23809	[NASA-CASE-LAR-14049-1]	c 07	N89-23466
Airplane automatic control force trimming device for asymmetric engine failures			Space spider crane			Processable polyimide adhesive and matrix composite resin		
[NASA-CASE-LAR-13280-1]	c 08	N87-20999	[NASA-CASE-LAR-13411-1-SB]	c 18	N88-23828	[NASA-CASE-LAR-14101-1]	c 27	N89-23692
Measurement apparatus and procedure for the determination of surface emissivities			Arc lamp power supply using a voltage multiplier			Semipermeating polymer network for tougher and more microcracking resistant high temperature polymers		
[NASA-CASE-LAR-13455-1]	c 32	N87-21206	[NASA-CASE-LAR-13202-1]	c 33	N88-23942	[NASA-CASE-LAR-13925-1]	c 27	N89-25334
Comparator with noise suppression			Thermal remote anemometer system			Antenna surface contour control system		
[NASA-CASE-LAR-13151-1]	c 33	N87-21235	[NASA-CASE-LAR-13508-1]	c 35	N88-23962	[NASA-CASE-LAR-13798-1]	c 32	N89-25363
Acoustic guide for noise-transmission testing of aircraft			Mining volume measurement system			A torsional suspension system for testing space structures		
[NASA-CASE-LAR-13111-1-CU]	c 71	N87-21652	[NASA-CASE-LAR-13519-1]	c 35	N88-23963	[NASA-CASE-LAR-14149-1-SB]	c 14	N89-28547
Acoustic radiation stress measurement			Bearing-bypass material system test			Delamination test apparatus and method		
[NASA-CASE-LAR-13440-1]	c 71	N87-21653	[NASA-CASE-LAR-13458-1]	c 35	N88-23967	[NASA-CASE-LAR-13985-1]	c 24	N89-28586
Aircraft control position indicator			Composite piston			Aluminum alloy		
[NASA-CASE-LAR-12984-1]	c 06	N87-22678	[NASA-CASE-LAR-13435-1]	c 37	N88-23981	[NASA-CASE-LAR-13924-1-CU]	c 26	N89-28621
Polynamines from aromatic diacetylenic diketones and diamines			Variable response load limiting device			Almond test body		
[NASA-CASE-LAR-13444-1-CU]	c 27	N87-22847	[NASA-CASE-LAR-12801-1]	c 37	N88-23982	[NASA-CASE-LAR-13747-1-CU]	c 32	N89-28672
Process for crosslinking and extending conjugated diene-containing polymers			Method of radiographic inspection of wooden members			Method and circuit for controlling the evolution time interval of a laser output pulse		
[NASA-CASE-LAR-13452-1]	c 27	N87-22848	[NASA-CASE-LAR-13724-1]	c 38	N88-23983	[NASA-CASE-LAR-13772-1]	c 36	N89-28816
Daze fasteners			Airplane runway performance monitoring system			Method and circuit for shaping laser output pulses		
[NASA-CASE-LAR-13009-2]	c 37	N87-22976	[NASA-CASE-LAR-13854-1-CU]	c 04	N88-24621	[NASA-CASE-LAR-14203-1]	c 36	N89-28817
Apparatus and procedure to detect a liquid-solid interface during crystal growth in a bridgman furnace			Actuated forebody strakes			Method and apparatus for determining time, direction and composition of impacting space particles		
[NASA-CASE-LAR-13597-1-CU]	c 25	N87-23713	[NASA-CASE-LAR-13983-1]	c 05	N88-24628	[NASA-CASE-LAR-13392-1-CU]	c 19	N90-10132
Rapid quantification of an internal property			Radio Frequency (RF) strain monitor			Catalyst for carbon monoxide oxidation		
[NASA-CASE-LAR-13689-1-NP]	c 35	N87-23941	[NASA-CASE-LAR-13705-1]	c 39	N88-25011	[NASA-CASE-LAR-14155-1-SB]	c 25	N90-11823
Adjustable mount for electro-optic transducers in an evacuated cryogenic system			Phase length optical phase-locked-loop sensor			Serrated trailing edges for improving lift and drag characteristics of lifting surfaces		
[NASA-CASE-LAR-13100-1]	c 37	N87-23982	[NASA-CASE-LAR-13387-1]	c 74	N88-25302	[NASA-CASE-LAR-13870-1]	c 05	N90-15094
Fully redundant mechanical release actuator			Method of forming a multiple layer dielectric and a hot film sensor therewith			Novel polyimide compositions based on 4,4'-isophthaloyldipthalic anhydride (IDPA)		
[NASA-CASE-LAR-13198-1]	c 37	N87-23983	[NASA-CASE-LAR-13678-1]	c 76	N88-25355	[NASA-CASE-LAR-14194-1]	c 24	N90-15148
Polyimides containing carbonyl and ether connecting groups			Method and device for determining heats of combustion of gaseous hydrocarbons			Ignitability test method and apparatus		
[NASA-CASE-LAR-13633-1]	c 27	N87-24575	[NASA-CASE-LAR-13528-1]	c 25	N88-29002	[NASA-CASE-LAR-13996-1-SB]	c 25	N90-15161
Airfoil flutter model suspension system			Method and apparatus for non-destructive testing of temper embrittlement in steels			Wet spinning of solid polyamic acid fibers		
[NASA-CASE-LAR-13522-1-SB]	c 09	N87-25334	[NASA-CASE-LAR-13817-1]	c 26	N88-29012	[NASA-CASE-LAR-14162-1]	c 27	N90-15259
Oxygen diffusion barrier coating			Method of dispensing reagent chemicals in space			Polyimides with carbonyl and ether connecting groups between the aromatic rings		
[NASA-CASE-LAR-13474-1-SB]	c 26	N87-25455	[NASA-CASE-LAR-13607-1-CU]	c 29	N88-29048	[NASA-CASE-LAR-14001-1]	c 27	N90-15260
Process for developing crystallinity in linear aromatic polyimides			Ice detector			Single element magnetic suspension actuator		
[NASA-CASE-LAR-13732-1]	c 27	N87-25474	[NASA-CASE-LAR-13776-1]	c 35	N88-29149	[NASA-CASE-LAR-13981-1]	c 37	N90-15442
Deployable geodesic truss structure			Liquid thickness gauge					
[NASA-CASE-LAR-13113-1]	c 31	N87-25492	[NASA-CASE-LAR-13826-1]	c 35	N88-29150			
			Quantitative surface temperature measurement using two-color thermographic phosphors and video equipment					
			[NASA-CASE-LAR-13740-1]	c 35	N88-30105			
			Method of attaching strain gauges to various materials					
			[NASA-CASE-LAR-13797-1]	c 35	N88-30108			
			Clevis joint for deployable space structures					
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[NASA-CASE-LAR-13968-1] c 71 N90-15710
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[NASA-CASE-LAR-13580-1] c 37 N90-16272
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Skin friction balance
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[NASA-CASE-LAR-13638-1] c 31 N90-19427
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[NASA-CASE-XLE-05130] c 15 N69-21362
Fluid jet amplifier
[NASA-CASE-XLE-03512] c 12 N69-21466
Electrode and insulator with shielded dielectric junction
[NASA-CASE-XLE-03778] c 09 N69-21542
Thin window, drifted silicon, charged particle detector
[NASA-CASE-XLE-10529] c 14 N69-23191
Probes having ring and primary sensor at same potential to prevent collection of stray wall currents in ionized gases
[NASA-CASE-XLE-00690] c 25 N69-39884
Ion thruster cathode
[NASA-CASE-XLE-07087] c 06 N69-39889
Superconducting alternator
[NASA-CASE-XLE-02824] c 03 N69-39890
Triode thermionic energy converter
[NASA-CASE-XLE-01015] c 03 N69-39898
Slug flow magnetohydrodynamic generator
[NASA-CASE-XLE-02083] c 03 N69-39983
Reduced gravity liquid configuration simulator
[NASA-CASE-XLE-02624] c 12 N69-39988
Transpiration cooled turbine blade manufactured from wires Patent
[NASA-CASE-XLE-00020] c 15 N70-33226
Rocket propellant injector Patent
[NASA-CASE-XLE-00103] c 28 N70-33241
Modification and improvements to cooled blades Patent
[NASA-CASE-XLE-00092] c 15 N70-33264
Colloid propulsion method and apparatus Patent
[NASA-CASE-XLE-00817] c 28 N70-33265
High-vacuum condenser tank for ion rocket tests Patent
[NASA-CASE-XLE-00168] c 11 N70-33278
High temperature nickel-base alloy Patent
[NASA-CASE-XLE-00151] c 17 N70-33283
Annular rocket motor and nozzle configuration Patent
[NASA-CASE-XLE-00078] c 28 N70-33284
Reinforced metallic composites Patent
[NASA-CASE-XLE-02428] c 17 N70-33288
Process for applying a protective coating for salt bath brazing Patent
[NASA-CASE-XLE-00046] c 15 N70-33311
Wire grid forming apparatus Patent
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Dual acting slit control mechanism
[NASA-CASE-LAR-11370-1] c 35 N80-28686
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[NASA-CASE-XLA-04980] c 09 N69-27422
- Rochester General Hospital, NY.**
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[NASA-CASE-MFS-25740-1] c 52 N84-11744
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[NASA-CASE-XGS-01036] c 14 N70-40003
- Rockwell International Corp., Canoga Park, CA.**
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[NASA-CASE-XNP-07040] c 08 N71-12500
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[NASA-CASE-XMS-06782] c 32 N71-15974

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[NASA-CASE-NPO-10158] c 33 N71-16356

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[NASA-CASE-NPO-10122] c 12 N71-17631

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[NASA-CASE-MFS-14259] c 15 N71-19213

Hydrogen leak detection device Patent
[NASA-CASE-MFS-11537] c 14 N71-20442

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[NASA-CASE-XNP-10475] c 15 N71-24679

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[NASA-CASE-NPO-10070] c 15 N71-27372

Locking device for turbine rotor blades Patent
[NASA-CASE-XNP-00816] c 28 N71-28928

Laser camera and diffusion filter therefore Patent
[NASA-CASE-NPO-10417] c 16 N71-33410

Hydrazinium nitroformate propellant stabilized with nitroguanidine
[NASA-CASE-NPO-12000] c 27 N72-25699

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[NASA-CASE-NPO-12015] c 27 N73-16764

Novel polymers and method of preparing same
[NASA-CASE-NPO-10998-1] c 06 N73-32029

Internally supported flexible duct joint
[NASA-CASE-MFS-19193-1] c 37 N75-19686

Brazing alloy binder
[NASA-CASE-XMF-05868] c 26 N75-27125

Brazing alloy composition
[NASA-CASE-XMF-06053] c 26 N75-27126

Brazing alloy
[NASA-CASE-XNP-03878] c 26 N75-27127

Method and apparatus for vibration analysis utilizing the Mossbauer effect
[NASA-CASE-XMF-05882] c 35 N75-27329

Method of heat treating age-hardenable alloys
[NASA-CASE-XNP-01311] c 26 N75-29236

Thrust measurement
[NASA-CASE-XMS-05731] c 35 N75-29382

Externally supported internally stabilized flexible duct joint
[NASA-CASE-MFS-19194-1] c 37 N76-14460

Device for installing rocket engines
[NASA-CASE-MFS-19220-1] c 20 N76-22296

Accumulator
[NASA-CASE-MFS-19287-1] c 34 N77-30399

Laser extensometer
[NASA-CASE-MFS-19259-1] c 36 N78-14380

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[NASA-CASE-XMF-05373-1] c 33 N79-21264

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Apparatus for positioning modular components on a vertical or overhead surface
[NASA-CASE-LAR-11465-1] c 37 N76-21554

Flanged major modular assembly jig
[NASA-CASE-MSC-19372-1] c 39 N76-31562

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[NASA-CASE-MFS-16609-3] c 03 N76-32140

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[NASA-CASE-MSC-19442-1] c 74 N77-10899

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[NASA-CASE-MSC-19536-1] c 37 N77-22482

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[NASA-CASE-MSC-19535-1] c 37 N77-32499

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[NASA-CASE-MSC-19666-1] c 37 N78-17383

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[NASA-CASE-MSC-19693-1] c 26 N78-24333

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[NASA-CASE-MSC-19568-1] c 34 N78-25350

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[NASA-CASE-MSC-16270-1] c 37 N78-27423

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[NASA-CASE-MSC-19706-1] c 09 N78-31129

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[NASA-CASE-MSC-19514-1] c 37 N79-20377

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[NASA-CASE-MSC-16697-1] c 33 N79-28415

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[NASA-CASE-MSC-18179-1] c 20 N80-18097

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[NASA-CASE-MSC-16938-1] c 37 N80-23653

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[NASA-CASE-LAR-11821-1] c 26 N80-28492

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[NASA-CASE-MSC-16800-1] c 32 N81-14187

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[NASA-CASE-MSC-16973-1] c 37 N81-14317

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[NASA-CASE-MSC-18134-1] c 37 N81-15363

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[NASA-CASE-MSC-18606-1] c 32 N82-11336

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[NASA-CASE-MSC-18430-1] c 37 N82-24491

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[NASA-CASE-MSC-18526-1] c 37 N82-24494

A method and technique for installing light-weight fragile, high-temperature fiber insulation
[NASA-CASE-MSC-18934-3] c 24 N82-26387

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[NASA-CASE-MSC-18532-1] c 32 N82-27558

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[NASA-CASE-MSC-18741-1] c 27 N82-29456

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[NASA-CASE-KSC-11097-1] c 27 N82-33520

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[NASA-CASE-MSC-18936-1] c 35 N83-29652

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[NASA-CASE-MSC-18791-1] c 37 N83-36482

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[NASA-CASE-LAR-12644-1] c 37 N84-28084

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[NASA-CASE-MSC-20250-1] c 35 N86-19581

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[NASA-CASE-ARC-11154-1] c 25 N80-23383

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[NASA-CASE-ARC-11118-2] c 52 N81-14613

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[NASA-CASE-ARC-11245-1] c 28 N82-18401

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[NASA-CASE-ARC-11253-2] c 27 N82-24338

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[NASA-CASE-ARC-11252-1] c 25 N83-36118

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[NASA-CASE-ARC-11418-1] c 24 N84-11213

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[NASA-CASE-ARC-11402-1] c 27 N84-22744

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[NASA-CASE-XMS-09352] c 09 N71-23316

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[NASA-CASE-GSC-12143-1] c 35 N77-32456

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[NASA-CASE-GSC-12032-2] c 43 N82-13465

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[NASA-CASE-ARC-10754-1] c 07 N75-24736

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[NASA-CASE-ARC-10755-2] c 34 N76-27517

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[NASA-CASE-MSC-16074-1] c 27 N80-26446

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[NASA-CASE-MSC-14733-1] c 54 N76-24900

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[NASA-CASE-FRC-10113-1] c 33 N80-26599

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[NASA-CASE-MSC-16000-1] c 37 N78-24544

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[NASA-CASE-MFS-10946-1] c 31 N79-21226

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[NASA-CASE-XMF-05757-1] c 31 N79-21227

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[NASA-CASE-LAR-11900-1] c 37 N79-14382

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[NASA-CASE-ARC-11444-1] c 05 N85-29947

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[NASA-CASE-MSC-20258-1] c 60 N84-28492

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[NASA-CASE-KSC-10647-1] c 10 N72-31273

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[NASA-CASE-HQN-10790-1] c 36 N74-11313

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[NASA-CASE-GSC-12022-2] c 44 N78-24609

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[NASA-CASE-WLP-10055-1] c 35 N84-28015

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[NASA-CASE-HQN-10740-1] c 72 N74-19310

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[NASA-CASE-XGS-05441] c 10 N71-22962

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[NASA-CASE-XNP-01107] c 10 N71-28859

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[NASA-CASE-XMF-03934] c 09 N71-22985
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[NASA-CASE-XNP-02340] c 23 N69-24332
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[NASA-CASE-NPO-10575] c 03 N72-25019

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[NASA-CASE-XMS-05307] c 09 N69-24330

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[NASA-CASE-XGS-03058] c 10 N71-19547

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[NASA-CASE-MFS-14017] c 14 N71-26627
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[NASA-CASE-MFS-20453] c 15 N71-29133
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[NASA-CASE-KSC-10521] c 07 N73-20176
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[NASA-CASE-MFS-22133-1] c 33 N74-26977
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[NASA-CASE-MFS-22283-1] c 37 N75-33395
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[NASA-CASE-MFS-22707-1] c 37 N76-15457
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[NASA-CASE-XLA-04897] c 15 N72-22482

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[NASA-CASE-XNP-03263] c 09 N71-18843
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[NASA-CASE-XNP-02251] c 12 N71-20896
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[NASA-CASE-NPO-10234] c 06 N72-17094

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[NASA-CASE-ARC-10042-2] c 10 N72-11256
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[NASA-CASE-ARC-10192] c 09 N72-21245
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[NASA-CASE-HQN-10439] c 21 N72-21624
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[NASA-CASE-HQN-10844-1] c 36 N75-19653
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[NASA-CASE-HQN-10069] c 33 N75-27251
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[NASA-CASE-ARC-11051-1] c 27 N78-32260
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[NASA-CASE-ARC-11169-1] c 24 N79-24062
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[NASA-CASE-ARC-11052-1] c 37 N79-28551
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[NASA-CASE-ARC-11164-1] c 44 N83-34448

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[NASA-CASE-MFS-26002-1-CU] c 35 N86-26598

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[NASA-CASE-MFS-20125] c 16 N72-13437
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[NASA-CASE-LAR-10907-1] c 35 N76-29551

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[NASA-CASE-MFS-20586] c 15 N71-17686

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[NASA-CASE-LEW-12989-1] c 37 N82-12442

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[NASA-CASE-MSC-13540-1] c 05 N72-33096

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[NASA-CASE-LAR-10670-1] c 06 N73-30097
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[NASA-CASE-MFS-23315-1] c 76 N78-24950

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[NASA-CASE-GSC-10835-1] c 09 N72-33205
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[NASA-CASE-MSC-14339-1] c 05 N75-24716

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[NASA-CASE-LAR-11995-1] c 28 N77-10213

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[NASA-CASE-MFS-21629] c 14 N72-22442

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[NASA-CASE-NPO-12127-1] c 91 N74-13130
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[NASA-CASE-LEW-10199-1] c 27 N74-23125
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[NASA-CASE-LAR-11726-1] c 37 N76-27568
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[NASA-CASE-XNP-01458] c 04 N78-17031
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[NASA-CASE-MSC-11235] c 33 N78-17294
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[NASA-CASE-GSC-10135] c 33 N78-17296
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[NASA-CASE-ARC-10198] c 34 N78-17336
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[NASA-CASE-ARC-10199] c 34 N78-17337
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[NASA-CASE-MSC-11242] c 35 N78-17358
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[NASA-CASE-MFS-22597] c 36 N78-17366
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[NASA-CASE-WOO-00625] c 37 N78-17385
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[NASA-CASE-NPO-10151] c 37 N78-17386
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[NASA-CASE-NPO-13360-1] c 37 N75-25185
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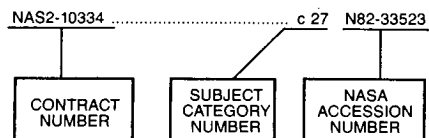
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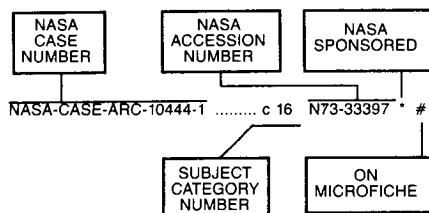
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NAS 1.71:LEW-14520-1	c 33	N88-23936 *	#
NAS 1.71:LEW-14672-1	c 37	N90-15444 *	#
NAS 1.71:LEW-14676-2	c 76	N90-17454 *	#
NAS 1.71:LEW-14679-1	c 27	N89-28651 *	#
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NAS 1.71:LEW-14698-1	c 24	N88-29888 *	#
NAS 1.71:LEW-14698-2	c 27	N90-15262 *	#
NAS 1.71:LEW-14734-1	c 24	N89-23623 *	#
NAS 1.71:LEW-14746-1	c 33	N90-17009 *	#
NAS 1.71:LEW-14776-1	c 37	N90-15445 *	#
NAS 1.71:LEW-14795-1	c 74	N90-15733 *	#
NAS 1.71:LEW-14846-1	c 20	N90-15130 *	#
NAS 1.71:LEW-14848-1	c 14	N89-28549 *	#
NAS 1.71:LEW-14880-1	c 35	N90-10415 *	#
NAS 1.71:LEW-14901-1	c 75	N90-10718 *	#
NAS 1.71:LEW-14990-1-CU	c 24	N90-15147 *	#
NAS 1.71:MFS-25302-2	c 33	N84-33660 *	#
NAS 1.71:MFS-25637-1	c 44	N85-21769 *	#
NAS 1.71:MFS-25717-1	c 35	N84-33768 *	#
NAS 1.71:MFS-25721-1	c 25	N85-21280 *	#
NAS 1.71:MFS-25852-1	c 33	N84-33661 *	#
NAS 1.71:MFS-25861-1	c 33	N85-22877 *	#
NAS 1.71:MFS-25862-1	c 27	N85-20126 *	#
NAS 1.71:MFS-25862-2	c 37	N84-33807 *	#
NAS 1.71:MFS-26002-1-CU	c 35	N86-26598 *	#
NAS 1.71:MFS-26049-1-NP	c 25	N89-28603 *	#
NAS 1.71:MFS-28008-1	c 35	N85-20300 *	#
NAS 1.71:MFS-28013-1	c 89	N86-22459 *	#
NAS 1.71:MFS-28139-1	c 29	N87-18679 *	#
NAS 1.71:MFS-28153-1	c 31	N86-32589 *	#
NAS 1.71:MFS-28161-1	c 37	N87-18817 *	#
NAS 1.71:MFS-28182-1	c 76	N88-25357 *	#
NAS 1.71:MFS-28183-1	c 74	N89-13253 *	#
NAS 1.71:MFS-28206-1-SB	c 76	N88-25356 *	#
NAS 1.71:MFS-28248-1	c 31	N88-24817 *	#
NAS 1.71:MFS-28273-1	c 37	N88-23974 *	#
NAS 1.71:MFS-28281-1	c 09	N88-28938 *	#
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NAS 1.71:MFS-28287-1	c 35	N88-23959 *	#
NAS 1.71:MFS-28294-1	c 31	N90-10310 *	#
NAS 1.71:MFS-28314-1	c 26	N90-15227 *	#
NAS 1.71:MFS-28327-1	c 18	N89-28556 *	#
NAS 1.71:MFS-28345-1	c 37	N89-28841 *	#
NAS 1.71:MFS-28345-2	c 37	N89-28842 *	#
NAS 1.71:MFS-28368-1	c 75	N90-10717 *	#
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NAS 1.71:MSC-20112-1	c 37	N85-20338 *	#
NAS 1.71:MSC-20275-1	c 35	N85-21595 *	#
NAS 1.71:MSC-20319-1	c 37	N85-21649 *	#
NAS 1.71:MSC-20761-1	c 37	N87-15465 *	#
NAS 1.71:MSC-20782-1	c 27	N89-13620 *	#
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NAS 1.71:MSC-20865-1	c 32	N87-18692 *	#
NAS 1.71:MSC-20907-1	c 37	N87-18818 *	#
NAS 1.71:MSC-20964-1	c 60	N87-14863 *	#
NAS 1.71:MSC-21059-1	c 35	N89-12843 *	#
NAS 1.71:MSC-21082-1	c 27	N87-29672 *	#
NAS 1.71:MSC-21094-1	c 35	N88-24941 *	#
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NAS 1.71:MSC-21170-1	c 17	N88-24662 *	#
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NAS 1.71:MSC-21332-1	c 03	N89-11724 *	#
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NAS 1.71:MSC-21361-1	c 51	N89-25557 *	#
NAS 1.71:MSC-21364-1	c 54	N89-13889 *	#
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NAS 1.71:MSC-21372-1	c 35	N89-12842 *	#
NAS 1.71:MSC-21387-1	c 61	N90-16411 *	#
NAS 1.71:MSC-21408-1	c 37	N89-28829 *	#
NAS 1.71:MSC-21428-1	c 33	N90-17008 *	#
NAS 1.71:MSC-21434-1	c 37	N90-17138 *	#
NAS 1.71:MSC-21465-1	c 61	N90-16410 *	#
NAS 1.71:MSC-21470-1	c 09	N90-16771 *	#
NAS 1.71:MSC-21476-1	c 37	N90-17137 *	#
NAS 1.71:MSC-21487-1	c 25	N90-16887 *	#
NAS 1.71:MSC-21503-1	c 27	N90-16925 *	#
NAS 1.71:MSC-21560-1	c 51	N90-18852 *	#
NAS 1.71:MSC-21629-1	c 54	N89-29027 *	#
NAS 1.71:NPO-13556-1	c 35	N84-33766 *	#
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NAS 1.71:NPO-15295-1	c 60	N85-21992 *	#
NAS 1.71:NPO-15341-1	c 35	N84-33769 *	#
NAS 1.71:NPO-15430-1	c 46	N85-21846 *	#
NAS 1.71:NPO-15433-1	c 32	N85-21428 *	#
NAS 1.71:NPO-15466-1	c 71	N85-22104 *	#
NAS 1.71:NPO-15483-1	c 37	N85-21650 *	#
NAS 1.71:NPO-15493-2	c 35	N85-34373 *	#
NAS 1.71:NPO-15494-2	c 35	N85-34373 *	#
NAS 1.71:NPO-15519-1	c 32	N84-34651 *	#
NAS 1.71:NPO-15558-1	c 35	N84-34705 *	#
NAS 1.71:NPO-15560-1	c 33	N85-21491 *	#
NAS 1.71:NPO-15644-1	c 35	N84-33767 *	#
NAS 1.71:NPO-15651-1	c 43	N85-21723 *	#
NAS 1.71:NPO-15753-1	c 27	N84-33589 *	#
NAS 1.71:NPO-15759-1	c 35	N85-21596 *	#
NAS 1.71:NPO-15790-1	c 36	N85-21631 *	#
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NAS 1.71:NPO-15808-1	c 44	N84-34792 *	#
NAS 1.71:NPO-15851-1	c 37	N85-21652 *	#
NAS 1.71:NPO-15920-1	c 33	N85-21493 *	#
NAS 1.71:NPO-16022-1	c 71	N85-22105 *	#
NAS 1.71:NPO-16027-1	c 35	N85-21597 *	#
NAS 1.71:NPO-16233-1	c 37	N86-20801 *	#

NAS 1.71:NPO-16306-1-CU	c 76	N85-30934 *	#	NASA-CASE-ARC-10199	c 34	N78-17337 *	NASA-CASE-ARC-10916-1	c 52	N78-10686 *
NAS 1.71:NPO-16420-1	c 33	N86-20681 *	#	NASA-CASE-ARC-10263-1	c 14	N72-22438 *	NASA-CASE-ARC-10917-1	c 51	N78-27733 *
NAS 1.71:NPO-16464-1CU	c 60	N86-24224 *	#	NASA-CASE-ARC-10264-1	c 09	N73-20231 *	NASA-CASE-ARC-10932-1	c 74	N76-22993 *
NAS 1.71:NPO-16494-1-CU	c 34	N85-29182 *	#	NASA-CASE-ARC-10265-1	c 10	N72-28240 *	NASA-CASE-ARC-10970-1	c 36	N77-25501 *
NAS 1.71:NPO-16584-1-CU	c 76	N86-25269 *	#	NASA-CASE-ARC-10266-1	c 33	N75-29318 *	NASA-CASE-ARC-10974-1	c 34	N77-27345 *
NAS 1.71:NPO-16632-1-CU	c 32	N87-15390 *	#	NASA-CASE-ARC-10269-1	c 10	N72-16172 *	NASA-CASE-ARC-10975-1	c 33	N79-15245 *
NAS 1.71:NPO-16784-1	c 33	N87-10231 *	#	NASA-CASE-ARC-10275-1	c 05	N72-22092 *	NASA-CASE-ARC-10976-1	c 74	N77-22950 *
NAS 1.71:NPO-16869	c 74	N86-33138 *	#	NASA-CASE-ARC-10278-1	c 14	N73-25463 *	NASA-CASE-ARC-10977-1	c 07	N80-32392 *
NAS 1.71:NPO-16882-1-CU	c 33	N88-24863 *	#	NASA-CASE-ARC-10302-1	c 51	N74-15778 *	NASA-CASE-ARC-10979-1	c 09	N77-19076 *
NAS 1.71:NPO-16892-1-CU	c 37	N87-14704 *	#	NASA-CASE-ARC-10304-1	c 18	N73-26572 *	NASA-CASE-ARC-10980-1	c 27	N80-23452 *
NAS 1.71:NPO-16932-1	c 33	N87-15413 *	#	NASA-CASE-ARC-10304-2	c 27	N74-27037 *	NASA-CASE-ARC-10981-1	c 37	N78-27425 *
NAS 1.71:NPO-16985-1-CU	c 31	N88-24814 *	#	NASA-CASE-ARC-10308-1	c 06	N72-31141 *	NASA-CASE-ARC-10984-1	c 32	N77-24328 *
NAS 1.71:NPO-16987-1-CU	c 32	N88-30001 *	#	NASA-CASE-ARC-10322-1	c 35	N76-18403 *	NASA-CASE-ARC-10985-1	c 52	N79-10724 *
NAS 1.71:NPO-16989-1-CU	c 35	N89-28794 *	#	NASA-CASE-ARC-10325	c 06	N72-25147 *	NASA-CASE-ARC-10990-1	c 04	N82-16059 *
NAS 1.71:NPO-17024-1-CU	c 35	N88-24943 *	#	NASA-CASE-ARC-10329-1	c 05	N73-26072 *	NASA-CASE-ARC-10991-1	c 25	N78-14104 *
NAS 1.71:NPO-17134-1-CU	c 33	N88-24864 *	#	NASA-CASE-ARC-10330-1	c 09	N73-32112 *	NASA-CASE-ARC-10992-1	c 26	N78-32229 *
NAS 1.71:NPO-17139-1-CU	c 74	N88-25301 *	#	NASA-CASE-ARC-10344-2	c 35	N75-26334 *	NASA-CASE-ARC-10994-1	c 52	N76-33835 *
NAS 1.71:NPO-17144-1-CU	c 74	N88-25305 *	#	NASA-CASE-ARC-10345-1	c 15	N73-12488 *	NASA-CASE-ARC-10994-2	c 52	N79-26771 *
NAS 1.71:NPO-17184-1-CU	c 32	N88-26541 *	#	NASA-CASE-ARC-10348-1	c 33	N75-19518 *	NASA-CASE-ARC-11007-1	c 52	N77-14736 *
NAS 1.71:NPO-17197-1-CU	c 62	N89-29976 *	#	NASA-CASE-ARC-10362-1	c 14	N73-32326 *	NASA-CASE-ARC-11008-1	c 27	N78-31232 *
NAS 1.71:NPO-17203-1-CU	c 34	N89-13728 *	#	NASA-CASE-ARC-10364-2	c 33	N75-25041 *	NASA-CASE-ARC-11031-1	c 52	N81-29763 *
NAS 1.71:NPO-17207-1-CU	c 74	N88-25304 *	#	NASA-CASE-ARC-10364-3	c 33	N75-19520 *	NASA-CASE-ARC-11035-1	c 52	N79-18580 *
NAS 1.71:NPO-17233-1-CU	c 33	N88-29095 *	#	NASA-CASE-ARC-10370-1	c 36	N75-31426 *	NASA-CASE-ARC-11036-1	c 35	N78-32395 *
NAS 1.71:NPO-17275-1-CU	c 37	N89-29750 *	#	NASA-CASE-ARC-10441-1	c 35	N74-15126 *	NASA-CASE-ARC-11039-1	c 74	N78-32854 *
NAS 1.71:NPO-17280-1-CU	c 17	N88-27220 *	#	NASA-CASE-ARC-10442-1	c 35	N74-15093 *	NASA-CASE-ARC-11040-1	c 24	N79-16915 *
NAS 1.71:NPO-17282-1-CU	c 36	N89-12856 *	#	NASA-CASE-ARC-10443-1	c 14	N73-20477 *	NASA-CASE-ARC-11040-2	c 24	N78-27184 *
NAS 1.71:NPO-17291-1-CU	c 34	N88-23946 *	#	NASA-CASE-ARC-10444-1	c 16	N73-33397 *	NASA-CASE-ARC-11042-1	c 24	N78-14096 *
NAS 1.71:NPO-17310-1-CU	c 17	N88-28946 *	#	NASA-CASE-ARC-10445-1	c 31	N76-31365 *	NASA-CASE-ARC-11043-1	c 24	N78-27180 *
NAS 1.71:NPO-17334-1-CU	c 31	N88-23917 *	#	NASA-CASE-ARC-10447-1	c 52	N74-22771 *	NASA-CASE-ARC-11045-1	c 05	N79-17847 *
NAS 1.71:NPO-17390-1-CU	c 35	N88-24944 *	#	NASA-CASE-ARC-10448-2	c 74	N75-12732 *	NASA-CASE-ARC-11046-1	c 35	N78-14364 *
NAS 1.71:NPO-17393-1-CU	c 33	N89-29679 *	#	NASA-CASE-ARC-10448-3	c 35	N77-14408 *	NASA-CASE-ARC-11051-1	c 27	N78-32260 *
NAS 1.71:NPO-17399-1-CU	c 76	N89-14120 *	#	NASA-CASE-ARC-10456-1	c 05	N75-12930 *	NASA-CASE-ARC-11052-1	c 37	N79-28551 *
NAS 1.71:NPO-17426-1-CU	c 33	N90-10329 *	#	NASA-CASE-ARC-10461-1	c 44	N74-33379 *	NASA-CASE-ARC-11053-1	c 25	N79-10162 *
NAS 1.71:NPO-17436-1-CU	c 35	N89-13764 *	#	NASA-CASE-ARC-10462-1	c 37	N74-27901 *	NASA-CASE-ARC-11057-1	c 27	N78-31233 *
NAS 1.71:NPO-17439-1-CU	c 52	N90-16391 *	#	NASA-CASE-ARC-10463-1	c 09	N73-32111 *	NASA-CASE-ARC-11058-1	c 54	N78-31735 *
NAS 1.71:NPO-17453-1-CU	c 37	N89-13787 *	#	NASA-CASE-ARC-10464-1	c 27	N74-12812 *	NASA-CASE-ARC-11058-2	c 54	N79-24651 *
NAS 1.71:NPO-17524-1-CU	c 27	N90-10261 *	#	NASA-CASE-ARC-10466-1	c 60	N75-13539 *	NASA-CASE-ARC-11059-1	c 54	N78-32721 *
NAS 1.71:NPO-17525-1-CU	c 60	N89-29955 *	#	NASA-CASE-ARC-10467-1	c 09	N73-14214 *	NASA-CASE-ARC-11060-1	c 27	N79-22300 *
NAS 1.71:NPO-17526-1-CU	c 35	N89-28796 *	#	NASA-CASE-ARC-10468-1	c 14	N73-33361 *	NASA-CASE-ARC-11097-1	c 25	N82-24312 *
NAS 1.71:NPO-17534-1-CU	c 76	N89-30076 *	#	NASA-CASE-ARC-10469-1	c 25	N75-12086 *	NASA-CASE-ARC-11100-1	c 54	N78-31736 *
NAS 1.71:NPO-17548-1-CU	c 32	N90-16104 *	#	NASA-CASE-ARC-10470-1	c 02	N73-26005 *	NASA-CASE-ARC-11101-1	c 54	N78-17675 *
NAS 1.71:NPO-17562-1-CU	c 74	N89-24153 *	#	NASA-CASE-ARC-10470-3	c 05	N76-29217 *	NASA-CASE-ARC-11104-1	c 15	N79-26100 *
NAS 1.71:NPO-17564-1-CU	c 32	N90-16974 *	#	NASA-CASE-ARC-10516-1	c 70	N74-21300 *	NASA-CASE-ARC-11106-1	c 05	N80-14107 *
NAS 1.71:NPO-17596-1-CU	c 35	N89-28795 *	#	NASA-CASE-ARC-10519-2	c 05	N75-25915 *	NASA-CASE-ARC-11107-1	c 25	N80-16116 *
NAS 1.71:NPO-17604-1-CU	c 33	N90-16124 *	#	NASA-CASE-ARC-10583-1	c 52	N76-29894 *	NASA-CASE-ARC-11110-1	c 37	N82-24492 *
NAS 1.71:NPO-17621-1-CU	c 33	N90-17010 *	#	NASA-CASE-ARC-10592-1	c 27	N74-21156 *	NASA-CASE-ARC-11114-1	c 51	N81-14605 *
NAS 1.71:NPO-17628-1-CU	c 32	N89-28684 *	#	NASA-CASE-ARC-10592-2	c 27	N76-32315 *	NASA-CASE-ARC-11116-1	c 33	N82-24420 *
NAS 1.71:NPO-17630-1-CU	c 31	N89-29577 *	#	NASA-CASE-ARC-10593-1	c 33	N74-27682 *	NASA-CASE-ARC-11117-1	c 52	N81-14612 *
NAS 1.71:NPO-17633-1-CU	c 27	N90-15263 *	#	NASA-CASE-ARC-10596-1	c 33	N74-21851 *	NASA-CASE-ARC-11118-1	c 52	N81-29764 *
NAS 1.71:NPO-17640-1-CU	c 33	N90-17011 *	#	NASA-CASE-ARC-10597-1	c 52	N74-20726 *	NASA-CASE-ARC-11118-2	c 52	N81-14613 *
NAS 1.71:NPO-17703-1-CU	c 74	N89-29191 *	#	NASA-CASE-ARC-10598-1	c 75	N74-30156 *	NASA-CASE-ARC-11120-1	c 52	N80-18691 *
NAS 1.71:NPO-17716-1-CU	c 62	N90-10608 *	#	NASA-CASE-ARC-10599-1	c 05	N73-26071 *	NASA-CASE-ARC-11121-1	c 25	N79-14169 *
NAS 1.71:NPO-17736-1-CU	c 76	N90-17455 *	#	NASA-CASE-ARC-10631-1	c 74	N76-20958 *	NASA-CASE-ARC-11154-1	c 25	N80-23383 *
NAS 1.71:NPO-17785-1-CU	c 37	N89-28846 *	#	NASA-CASE-ARC-10633-1	c 25	N74-26947 *	NASA-CASE-ARC-11157-1	c 37	N80-18393 *
NAS 1.71:NPO-17786-1-CU	c 35	N90-17104 *	#	NASA-CASE-ARC-10637-1	c 35	N75-16783 *	NASA-CASE-ARC-11158-1	c 09	N82-24212 *
NAS 1.71:NPO-17812-1-CU	c 76	N90-17456 *	#	NASA-CASE-ARC-10639-1	c 35	N78-13400 *	NASA-CASE-ARC-11164-1	c 44	N83-34448 *
NAS 1.71:NPO-17820-1-CU	c 04	N90-18379 *	#	NASA-CASE-ARC-10642-1	c 36	N76-14447 *	NASA-CASE-ARC-11167-1	c 52	N81-25662 *
NAS 1.71:NPO-17853-1-CU	c 32	N90-16975 *	#	NASA-CASE-ARC-10643-1	c 25	N75-12087 *	NASA-CASE-ARC-11169-1	c 24	N79-24062 *
NAS 1.71:NST-00007-1	c 45	N89-28967 *	#	NASA-CASE-ARC-10710-1	c 09	N75-12969 *	NASA-CASE-ARC-11170-1	c 27	N79-11215 *
NAS 1.71:SSC-00004	c 37	N90-15443 *	#	NASA-CASE-ARC-10711-2	c 33	N76-21390 *	NASA-CASE-ARC-11174-1	c 24	N81-13999 *
NAS 1.71:WLP-10055-2	c 35	N85-21598 *	#	NASA-CASE-ARC-10712-1	c 07	N74-33218 *	NASA-CASE-ARC-11176-1	c 27	N82-18389 *
NASA-CASE-ARC-10003-1	c 09	N71-25866 *	#	NASA-CASE-ARC-10714-1	c 27	N76-15310 *	NASA-CASE-ARC-11176-2	c 27	N81-27271 *
NASA-CASE-ARC-10009-1	c 15	N71-17822 *	#	NASA-CASE-ARC-10716-1	c 35	N77-20399 *	NASA-CASE-ARC-11241-1	c 25	N81-14016 *
NASA-CASE-ARC-10017-1	c 14	N72-29464 *	#	NASA-CASE-ARC-10721-1	c 27	N76-22376 *	NASA-CASE-ARC-11243-2	c 23	N85-33187 *
NASA-CASE-ARC-10020	c 10	N72-17172 *	#	NASA-CASE-ARC-10722-1	c 51	N75-25503 *	NASA-CASE-ARC-11244-1	c 23	N82-16174 *
NASA-CASE-ARC-10030	c 09	N71-12521 *	#	NASA-CASE-ARC-10753-1	c 54	N75-27760 *	NASA-CASE-ARC-11245-1	c 28	N82-18401 *
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NASA-CASE-ERC-10088	c 26	N71-25490 *	NASA-CASE-FRC-11068-1	c 35	N84-12443 *	NASA-CASE-GSC-11092-2	c 04	N73-27052 *
NASA-CASE-ERC-10089	c 23	N72-17747 *	NASA-CASE-FRC-11072-1	c 05	N83-27975 *	NASA-CASE-GSC-11095-1	c 14	N72-10375 *
NASA-CASE-ERC-10090	c 21	N71-24948 *				NASA-CASE-GSC-11126-1	c 09	N72-25253 *
NASA-CASE-ERC-10097	c 15	N71-28465 *	NASA-CASE-GSC-10007	c 18	N71-16046 *	NASA-CASE-GSC-11127-1	c 09	N75-24758 *

NASA-CASE-GSC-11133-1	c 23	N72-11568 *	NASA-CASE-GSC-12017-1	c 32	N77-30308 *	NASA-CASE-GSC-12622-1	c 37	N84-12492 *
NASA-CASE-GSC-11139	c 09	N71-27016 *	NASA-CASE-GSC-12018-1	c 33	N77-14334 *	NASA-CASE-GSC-12630-1	c 33	N83-36355 *
NASA-CASE-GSC-11149-1	c 15	N73-30457 *	NASA-CASE-GSC-12022-1	c 44	N76-28635 *	NASA-CASE-GSC-12636-1	c 31	N83-27058 *
NASA-CASE-GSC-11163-1	c 15	N73-32360 *	NASA-CASE-GSC-12022-2	c 44	N78-24609 *	NASA-CASE-GSC-12640-1	c 74	N84-11920 *
NASA-CASE-GSC-11169-2	c 05	N73-32011 *	NASA-CASE-GSC-12023-1	c 44	N76-28635 *	NASA-CASE-GSC-12643-1	c 37	N83-26078 *
NASA-CASE-GSC-11182-1	c 15	N75-13007 *	NASA-CASE-GSC-12030-1	c 44	N78-24608 *	NASA-CASE-GSC-12645-1	c 33	N84-16454 *
NASA-CASE-GSC-11188-1	c 14	N73-32320 *	NASA-CASE-GSC-12032-2	c 43	N82-13465 *	NASA-CASE-GSC-12646-1	c 33	N83-34191 *
NASA-CASE-GSC-11188-2	c 21	N73-19630 *	NASA-CASE-GSC-12039-1	c 51	N77-22794 *	NASA-CASE-GSC-12650-1	c 33	N84-14421 *
NASA-CASE-GSC-11188-3	c 74	N74-20008 *	NASA-CASE-GSC-12044-1	c 60	N78-17691 *	NASA-CASE-GSC-12652-1	c 52	N84-34913 *
NASA-CASE-GSC-11205-1	c 15	N73-25513 *	NASA-CASE-GSC-12046-1	c 52	N79-14750 *	NASA-CASE-GSC-12682-1	c 35	N84-33765 *
NASA-CASE-GSC-11211-1	c 03	N72-25020 *	NASA-CASE-GSC-12053-1	c 32	N77-28346 *	NASA-CASE-GSC-12683-1	c 74	N83-36898 *
NASA-CASE-GSC-11214-1	c 06	N73-13128 *	NASA-CASE-GSC-12058-1	c 74	N77-26942 *	NASA-CASE-GSC-12686-1	c 27	N83-34039 *
NASA-CASE-GSC-11215-1	c 09	N73-28083 *	NASA-CASE-GSC-12059-1	c 35	N77-27366 *	NASA-CASE-GSC-12697-1	c 44	N83-28574 *
NASA-CASE-GSC-11222-1	c 16	N73-32391 *	NASA-CASE-GSC-12075-1	c 32	N77-31350 *	NASA-CASE-GSC-12726-1	c 37	N83-34323 *
NASA-CASE-GSC-11239-1	c 10	N73-25241 *	NASA-CASE-GSC-12077-1	c 35	N77-24455 *	NASA-CASE-GSC-12756-1	c 74	N84-23248 *
NASA-CASE-GSC-11262-1	c 36	N74-21091 *	NASA-CASE-GSC-12081-2	c 52	N82-22875 *	NASA-CASE-GSC-12761-1	c 74	N86-32266 *
NASA-CASE-GSC-11291-1	c 25	N72-33696 *	NASA-CASE-GSC-12082-1	c 54	N76-22914 *	NASA-CASE-GSC-12762-1	c 37	N84-28083 *
NASA-CASE-GSC-11296-1	c 23	N73-30666 *	NASA-CASE-GSC-12082-2	c 52	N81-25661 *	NASA-CASE-GSC-12770-1	c 25	N83-29324 *
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NASA-CASE-GSC-11304-1	c 06	N72-21105 *	NASA-CASE-GSC-12088-1	c 74	N78-13874 *	NASA-CASE-GSC-12773-2	c 33	N87-23904 *
NASA-CASE-GSC-11340-1	c 10	N72-33230 *	NASA-CASE-GSC-12110-1	c 27	N77-32308 *	NASA-CASE-GSC-12782-1	c 33	N88-14271 *
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NASA-CASE-GSC-11358-1	c 06	N73-26100 *	NASA-CASE-GSC-12115-1	c 62	N76-31946 *	NASA-CASE-GSC-12789-1	c 35	N85-20294 *
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NASA-CASE-GSC-11425-2	c 76	N75-25730 *	NASA-CASE-GSC-12147-1	c 32	N81-27341 *	NASA-CASE-GSC-12816-1	c 76	N86-20150 *
NASA-CASE-GSC-11428-1	c 32	N74-20864 *	NASA-CASE-GSC-12148-1	c 32	N79-20296 *	NASA-CASE-GSC-12817-1	c 33	N85-29146 *
NASA-CASE-GSC-11434-1	c 34	N74-27859 *	NASA-CASE-GSC-12150-1	c 32	N79-11265 *	NASA-CASE-GSC-12818-1	c 33	N85-29147 *
NASA-CASE-GSC-11444-1	c 14	N73-28490 *	NASA-CASE-GSC-12156-1	c 51	N83-27569 *	NASA-CASE-GSC-12825-1	c 74	N86-28732 *
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NASA-CASE-GSC-11446-1	c 33	N74-20860 *	NASA-CASE-GSC-12171-1	c 33	N79-28416 *	NASA-CASE-GSC-12851-1	c 35	N85-30281 *
NASA-CASE-GSC-11479-1	c 35	N74-28097 *	NASA-CASE-GSC-12173-1	c 51	N79-10694 *	NASA-CASE-GSC-12880-1	c 26	N86-32550 *
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NASA-CASE-GSC-11492-1	c 35	N74-26949 *	NASA-CASE-GSC-12191-1	c 31	N80-32583 *	NASA-CASE-GSC-12892-1	c 32	N89-14374 *
NASA-CASE-GSC-11513-1	c 33	N74-20862 *	NASA-CASE-GSC-12194-2	c 20	N82-18314 *	NASA-CASE-GSC-12897-1	c 74	N87-21679 *
NASA-CASE-GSC-11514-1	c 03	N72-24037 *	NASA-CASE-GSC-12207-1	c 24	N79-14156 *	NASA-CASE-GSC-12899-1	c 33	N86-20669 *
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NASA-CASE-GSC-11533-1	c 14	N73-13435 *	NASA-CASE-GSC-12223-1	c 60	N83-25378 *	NASA-CASE-GSC-12944-1	c 52	N86-19885 *
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NASA-CASE-GSC-11560-1	c 33	N74-20861 *	NASA-CASE-GSC-12237-1	c 36	N80-14384 *	NASA-CASE-GSC-12958-1	c 33	N86-32624 *
NASA-CASE-GSC-11569-1	c 89	N74-30886 *	NASA-CASE-GSC-12253-1	c 34	N79-31523 *	NASA-CASE-GSC-12961-1	c 33	N87-22895 *
NASA-CASE-GSC-11571-1	c 36	N77-25499 *	NASA-CASE-GSC-12263-1	c 74	N79-20857 *	NASA-CASE-GSC-12970-1	c 08	N88-23808 *
NASA-CASE-GSC-11577-1	c 37	N75-15992 *	NASA-CASE-GSC-12273-1	c 35	N80-21719 *	NASA-CASE-GSC-13008-1	c 27	N88-23894 *
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NASA-CASE-GSC-11582-1	c 33	N75-19517 *	NASA-CASE-GSC-12289-1	c 37	N80-32717 *	NASA-CASE-GSC-13018-1	c 33	N87-21332 *
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NASA-CASE-GSC-11617-1	c 33	N74-32660 *	NASA-CASE-GSC-12303-1	c 24	N79-31347 *	NASA-CASE-GSC-13199-1	c 27	N90-15261 *
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NASA-CASE-GSC-11623-1	c 33	N75-25040 *	NASA-CASE-GSC-12322-1	c 37	N80-14398 *	NASA-CASE-HQN-00936	c 31	N71-29050 *
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NASA-CASE-GSC-11786-1	c 24	N76-24363 *	NASA-CASE-GSC-12360-1	c 33	N81-19392 *	NASA-CASE-HQN-10439	c 21	N72-21624 *
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NASA-CASE-GSC-11824-1	c 33	N77-26386 *	NASA-CASE-GSC-12399-1	c 33	N81-25299 *	NASA-CASE-HQN-10537-1	c 06	N72-10138 *
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NASA-CASE-GSC-11839-2	c 60	N78-10709 *	NASA-CASE-GSC-12420-1	c 33	N82-16340 *	NASA-CASE-HQN-10541-3	c 23	N72-23695 *
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NASA-CASE-GSC-11868-1	c 17	N76-22245 *	NASA-CASE-GSC-12513-1	c 31	N81-19343 *	NASA-CASE-HQN-10654-1	c 16	N73-13489 *
NASA-CASE-GSC-11877-1	c 74	N76-18913 *	NASA-CASE-GSC-12515-1	c 33	N81-26360 *	NASA-CASE-HQN-10683	c 14	N71-34389 *
NASA-CASE-GSC-11883-1	c 37	N77-19458 *	NASA-CASE-GSC-12517-1	c 37	N83-32067 *	NASA-CASE-HQN-10703	c 21	N73-13643 *
NASA-CASE-GSC-11883-2	c 37	N78-31426 *	NASA-CASE-GSC-12518-1	c 33	N82-24421 *	NASA-CASE-HQN-10740-1	c 72	N74-19310 *
NASA-CASE-GSC-11889-1	c 35	N76-16393 *	NASA-CASE-GSC-12528-1	c 74	N81-24900 *	NASA-CASE-HQN-10756-1	c 14	N72-25428 *
NASA-CASE-GSC-11892-1	c 35	N76-15433 *	NASA-CASE-GSC-12550-1	c 37	N84-28082 *	NASA-CASE-HQN-10780	c 14	N71-30265 *
NASA-CASE-GSC-11893-1	c 35	N76-31489 *	NASA-CASE-GSC-12551-1	c 18	N83-28064 *	NASA-CASE-HQN-10781	c 23	N71-30292 *
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NASA-CASE-GSC-11925-1	c 33	N76-18353 *	NASA-CASE-GSC-12567-1	c 33	N84-22887 *	NASA-CASE-HQN-10876-1	c 33	N76-27473 *
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NASA-CASE-GSC-11976-1	c 43	N78-10529 *	NASA-CASE-GSC-12608-1	c 74	N83-10900 *	NASA-CASE-KSC-10003	c 10	N73-13235 *
NASA-CASE-GSC-11978-1	c 37	N77-17464 *	NASA-CASE-GSC-12609-1	c 36	N81-22344 *	NASA-CASE-KSC-10020	c 10	N71-27338 *
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NASA-CASE-GSC-12010-1	c 74	N78-18905 *	NASA-CASE-GSC-12619-1	c 37	N84-12491 *	NASA-CASE-KSC-10126	c 11	N71-24985 *

NASA-CASE-KSC-10162	c 09	N72-11225 *	NASA-CASE-LAR-10194-1	c 34	N74-30608 *	NASA-CASE-LAR-10836-1	c 26	N72-27784 *
NASA-CASE-KSC-10164	c 07	N71-33108 *	NASA-CASE-LAR-10195-1	c 15	N73-19458 *	NASA-CASE-LAR-10841-1	c 31	N74-27900 *
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NASA-CASE-KSC-10242	c 15	N72-23497 *	NASA-CASE-LAR-10204	c 14	N71-27215 *	NASA-CASE-LAR-10862-1	c 35	N74-15092 *
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NASA-CASE-KSC-10326	c 08	N72-21197 *	NASA-CASE-LAR-10226-1	c 14	N73-19419 *	NASA-CASE-LAR-10900-1	c 37	N74-23064 *
NASA-CASE-KSC-10392	c 07	N73-26117 *	NASA-CASE-LAR-10241-1	c 54	N74-14845 *	NASA-CASE-LAR-10907-1	c 35	N76-29551 *
NASA-CASE-KSC-10393	c 09	N72-21247 *	NASA-CASE-LAR-10249-1	c 02	N71-26110 *	NASA-CASE-LAR-10910-1	c 35	N74-13132 *
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NASA-CASE-KSC-10595	c 08	N73-12176 *	NASA-CASE-LAR-10276-1	c 09	N75-15662 *	NASA-CASE-LAR-10970-1	c 33	N76-14372 *
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NASA-CASE-KSC-10622-1	c 31	N72-21893 *	NASA-CASE-LAR-10295-1	c 35	N74-21062 *	NASA-CASE-LAR-11021-1	c 32	N76-14321 *
NASA-CASE-KSC-10626	c 14	N73-27378 *	NASA-CASE-LAR-10305	c 14	N71-26137 *	NASA-CASE-LAR-11027-1	c 35	N74-18088 *
NASA-CASE-KSC-10639	c 15	N73-26472 *	NASA-CASE-LAR-10310-1	c 10	N73-20253 *	NASA-CASE-LAR-11042-1	c 33	N75-27252 *
NASA-CASE-KSC-10644	c 09	N72-27227 *	NASA-CASE-LAR-10311-1	c 16	N73-16536 *	NASA-CASE-LAR-11051-1	c 15	N76-14158 *
NASA-CASE-KSC-10647-1	c 10	N72-31273 *	NASA-CASE-LAR-10317-1	c 32	N71-16103 *	NASA-CASE-LAR-11053-1	c 25	N74-18551 *
NASA-CASE-KSC-10654-1	c 07	N73-30115 *	NASA-CASE-LAR-10318-1	c 31	N74-18089 *	NASA-CASE-LAR-11059-1	c 76	N75-12810 *
NASA-CASE-KSC-10698	c 07	N73-20175 *	NASA-CASE-LAR-10319-1	c 14	N73-32322 *	NASA-CASE-LAR-11069-1	c 35	N75-12272 *
NASA-CASE-KSC-10723-1	c 37	N75-13265 *	NASA-CASE-LAR-10320-1	c 09	N72-23172 *	NASA-CASE-LAR-11071-1	c 35	N75-19611 *
NASA-CASE-KSC-10728-1	c 14	N73-32319 *	NASA-CASE-LAR-10323-1	c 12	N71-15753 *	NASA-CASE-LAR-11074-1	c 51	N75-13502 *
NASA-CASE-KSC-10729-1	c 09	N73-32110 *	NASA-CASE-LAR-10337-1	c 24	N75-30260 *	NASA-CASE-LAR-11110-1	c 34	N75-26282 *
NASA-CASE-KSC-10730-1	c 14	N73-32318 *	NASA-CASE-LAR-10348-1	c 11	N73-12264 *	NASA-CASE-LAR-11112-1	c 32	N76-15330 *
NASA-CASE-KSC-10731-1	c 33	N74-27862 *	NASA-CASE-LAR-10365-1	c 05	N72-27102 *	NASA-CASE-LAR-11138	c 12	N71-20436 *
NASA-CASE-KSC-10736-1	c 33	N75-19521 *	NASA-CASE-LAR-10372	c 09	N71-18599 *	NASA-CASE-LAR-11139-1	c 35	N74-32878 *
NASA-CASE-KSC-10750-1	c 35	N75-12270 *	NASA-CASE-LAR-10373-1	c 18	N71-26155 *	NASA-CASE-LAR-11141-1	c 07	N74-32418 *
NASA-CASE-KSC-10769-1	c 33	N74-29556 *	NASA-CASE-LAR-10385-2	c 70	N74-13436 *	NASA-CASE-LAR-11144-1	c 25	N75-26043 *
NASA-CASE-KSC-10782-1	c 33	N75-30431 *	NASA-CASE-LAR-10385-3	c 74	N78-15879 *	NASA-CASE-LAR-11155-1	c 35	N74-15091 *
NASA-CASE-KSC-10807-1	c 33	N75-26246 *	NASA-CASE-LAR-10403	c 21	N71-11766 *	NASA-CASE-LAR-11173-1	c 35	N75-19614 *
NASA-CASE-KSC-10834-1	c 33	N76-14371 *	NASA-CASE-LAR-10409-1	c 31	N74-21059 *	NASA-CASE-LAR-11201-1	c 35	N78-24515 *
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NASA-CASE-KSC-10899-1	c 33	N79-18193 *	NASA-CASE-LAR-10423-1	c 23	N82-29358 *	NASA-CASE-LAR-11208-1	c 44	N78-32539 *
NASA-CASE-KSC-11004-1	c 54	N77-30749 *	NASA-CASE-LAR-10426-1	c 09	N74-19528 *	NASA-CASE-LAR-11211-1	c 37	N75-12326 *
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NASA-CASE-KSC-11010-1	c 74	N79-12890 *	NASA-CASE-LAR-10440-1	c 14	N73-32323 *	NASA-CASE-LAR-11224-1	c 37	N76-18456 *
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NASA-CASE-KSC-11025-1	c 32	N83-13323 *	NASA-CASE-LAR-10489-1	c 31	N74-18124 *	NASA-CASE-LAR-11263-1	c 35	N75-33369 *
NASA-CASE-KSC-11030-1	c 52	N77-25772 *	NASA-CASE-LAR-10489-2	c 31	N74-32920 *	NASA-CASE-LAR-11310-1	c 07	N77-28118 *
NASA-CASE-KSC-11031-1	c 33	N79-11315 *	NASA-CASE-LAR-10496-1	c 14	N72-22437 *	NASA-CASE-LAR-11326-1	c 35	N75-33368 *
NASA-CASE-KSC-11034-1	c 44	N78-32542 *	NASA-CASE-LAR-10503-1	c 09	N72-21248 *	NASA-CASE-LAR-11341-1	c 36	N75-19655 *
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NASA-CASE-KSC-11042-1	c 09	N82-29330 *	NASA-CASE-LAR-10511-1	c 09	N72-29172 *	NASA-CASE-LAR-11354-1	c 35	N75-27330 *
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NASA-CASE-KSC-11048-1	c 62	N81-24779 *	NASA-CASE-LAR-10539-1	c 17	N73-12547 *	NASA-CASE-LAR-11387-1	c 04	N76-20114 *
NASA-CASE-KSC-11057-1	c 33	N79-14305 *	NASA-CASE-LAR-10541-1	c 15	N72-32487 *	NASA-CASE-LAR-11387-2	c 04	N77-19056 *
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NASA-CASE-KSC-11065-1	c 33	N81-26359 *	NASA-CASE-LAR-10545-1	c 09	N72-21244 *	NASA-CASE-LAR-11390-1	c 32	N77-21267 *
NASA-CASE-KSC-11069-1	c 52	N79-26772 *	NASA-CASE-LAR-10546-1	c 11	N72-25287 *	NASA-CASE-LAR-11397-1	c 27	N75-29263 *
NASA-CASE-KSC-11076-1	c 34	N81-26402 *	NASA-CASE-LAR-10547-1	c 31	N74-13177 *	NASA-CASE-LAR-11405-1	c 45	N76-31714 *
NASA-CASE-KSC-11085-1	c 54	N81-24724 *	NASA-CASE-LAR-10549-1	c 31	N73-13989 *	NASA-CASE-LAR-11428-1	c 35	N74-34857 *
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NASA-CASE-KSC-11104-1	c 74	N83-29032 *	NASA-CASE-LAR-10557	c 02	N72-11018 *	NASA-CASE-LAR-11458-1	c 35	N76-16392 *
NASA-CASE-KSC-11155-1	c 04	N86-19304 *	NASA-CASE-LAR-10574-1	c 11	N73-13257 *	NASA-CASE-LAR-11465-1	c 37	N76-21554 *
NASA-CASE-KSC-11170-1	c 33	N83-36356 *	NASA-CASE-LAR-10578-1	c 12	N73-25262 *	NASA-CASE-LAR-11476-1	c 07	N76-27232 *
NASA-CASE-KSC-11218-1	c 09	N85-19990 *	NASA-CASE-LAR-10585-1	c 02	N76-22154 *	NASA-CASE-LAR-11490-1	c 39	N78-16387 *
NASA-CASE-KSC-11282-1	c 85	N87-21755 *	NASA-CASE-LAR-10586-1	c 19	N74-15089 *	NASA-CASE-LAR-11500-1	c 35	N76-24523 *
NASA-CASE-KSC-11285-1	c 32	N86-27513 *	NASA-CASE-LAR-10590-1	c 15	N70-26819 *	NASA-CASE-LAR-11549-1	c 37	N77-11397 *
NASA-CASE-KSC-11304-2	c 28	N86-23744 *	NASA-CASE-LAR-10595-1	c 35	N74-16135 *	NASA-CASE-LAR-11551-1	c 44	N80-29834 *
NASA-CASE-KSC-11322-1	c 54	N89-29953 *	NASA-CASE-LAR-10612-1	c 12	N73-28144 *	NASA-CASE-LAR-11552-1	c 35	N76-14429 *
NASA-CASE-KSC-11368-1	c 37	N89-13786 *	NASA-CASE-LAR-10620-1	c 09	N72-25255 *	NASA-CASE-LAR-11563-1	c 37	N77-23482 *
NASA-CASE-LAR-02743	c 14	N73-32324 *	NASA-CASE-LAR-10623-1	c 14	N73-30395 *	NASA-CASE-LAR-11570-1	c 34	N76-18364 *
NASA-CASE-LAR-10000	c 14	N73-30394 *	NASA-CASE-LAR-10626-1	c 19	N74-21015 *	NASA-CASE-LAR-11575-1	c 02	N76-16014 *
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NASA-CASE-LAR-10031	c 15	N72-22484 *	NASA-CASE-LAR-10634-1	c 37	N74-18123 *	NASA-CASE-LAR-11617-2	c 35	N78-32397 *
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NASA-CASE-LAR-10083-1	c 15	N71-27006 *	NASA-CASE-LAR-10682-1	c 02	N73-26004 *	NASA-CASE-LAR-11667-1	c 52	N76-19785 *
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NASA-CASE-LAR-10102-1	c 05	N72-23085 *	NASA-CASE-LAR-10717-1	c 21	N73-30641 *	NASA-CASE-LAR-11688-1	c 24	N82-26384 *
NASA-CASE-LAR-10103-1	c 15	N73-14468 *	NASA-CASE-LAR-10726-1	c 14	N73-20475 *	NASA-CASE-LAR-11690-1	c 35	N80-14371 *
NASA-CASE-LAR-10105-1	c 34	N74-15652 *	NASA-CASE-LAR-10728-1	c 14	N73-12445 *	NASA-CASE-LAR-11695-2	c 37	N81-24443 *
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NASA-CASE-LAR-10193-1	c 15	N71-27146 *	NASA-CASE-LAR-10812-1	c 09	N74-17955 *	NASA-CASE-LAR-11869-1	c 74	N78-27904 *
			NASA-CASE-LAR-10815-1	c 16	N72-22520 *	NASA-CASE-LAR-11883-1	c 09	N77-27131 *

NASA-CASE-LAR-11889-1	c 35	N79-26372 *	NASA-CASE-LAR-12630-1	c 06	N84-27733 *	NASA-CASE-LAR-13255-1	c 02	N87-16793 *
NASA-CASE-LAR-11889-2	c 37	N78-27424 *	NASA-CASE-LAR-12633-1	c 33	N82-24416 *	NASA-CASE-LAR-13256-1	c 36	N86-29204 *
NASA-CASE-LAR-11898-1	c 24	N78-10214 *	NASA-CASE-LAR-12638-1	c 04	N84-14132 *	NASA-CASE-LAR-13257-1	c 25	N84-32447 *
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NASA-CASE-LAR-11902-1	c 27	N78-17206 *	NASA-CASE-LAR-12644-1	c 37	N84-28084 *	NASA-CASE-LAR-13280-1	c 08	N87-20999 *
NASA-CASE-LAR-11903-2	c 71	N84-14873 *	NASA-CASE-LAR-12650-1	c 52	N84-28388 *	NASA-CASE-LAR-13286-1	c 02	N88-14071 *
NASA-CASE-LAR-11919-1	c 07	N78-27121 *	NASA-CASE-LAR-12650-2	c 52	N84-28389 *	NASA-CASE-LAR-13292-1	c 27	N86-24841 *
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NASA-CASE-LAR-11973-1	c 35	N78-27384 *	NASA-CASE-LAR-12705-1	c 25	N82-26396 *	NASA-CASE-LAR-13310-1	c 32	N87-14559 *
NASA-CASE-LAR-11995-1	c 28	N77-10213 *	NASA-CASE-LAR-12706-1	c 35	N84-12444 *	NASA-CASE-LAR-13316-1	c 27	N86-27450 *
NASA-CASE-LAR-11999-1	c 44	N80-18552 *	NASA-CASE-LAR-12709-1	c 35	N82-28604 *	NASA-CASE-LAR-13316-2	c 27	N87-14515 *
NASA-CASE-LAR-12007-3	c 35	N84-16523 *	NASA-CASE-LAR-12719-1	c 44	N83-34449 *	NASA-CASE-LAR-13318-1	c 27	N87-14516 *
NASA-CASE-LAR-12009-1	c 44	N78-15560 *	NASA-CASE-LAR-12720-1	c 44	N83-21504 *	NASA-CASE-LAR-13351-1	c 27	N86-31521 *
NASA-CASE-LAR-12016-1	c 39	N78-15512 *	NASA-CASE-LAR-12723-1	c 27	N85-20123 *	NASA-CASE-LAR-13353-1	c 27	N86-29039 *
NASA-CASE-LAR-12018-1	c 20	N78-24275 *	NASA-CASE-LAR-12723-2	c 27	N84-22746 *	NASA-CASE-LAR-13384-1	c 27	N86-20561 *
NASA-CASE-LAR-12019-1	c 24	N78-17150 *	NASA-CASE-LAR-12728-1	c 35	N83-30206 *	NASA-CASE-LAR-13387-1	c 74	N88-25302 *
NASA-CASE-LAR-12027-1	c 39	N79-22537 *	NASA-CASE-LAR-12738-2	c 37	N85-30335 *	NASA-CASE-LAR-13392-1-CU	c 19	N90-10132 *
NASA-CASE-LAR-12045-1	c 34	N77-24423 *	NASA-CASE-LAR-12743-1	c 35	N84-28019 *	NASA-CASE-LAR-13393-1	c 54	N87-29118 *
NASA-CASE-LAR-12046-1	c 25	N78-15210 *	NASA-CASE-LAR-12751-1	c 15	N84-16231 *	NASA-CASE-LAR-13407-1	c 33	N87-28831 *
NASA-CASE-LAR-12052-1	c 18	N81-29152 *	NASA-CASE-LAR-12772-1	c 33	N83-16626 *	NASA-CASE-LAR-13411-1-SB	c 18	N88-23828 *
NASA-CASE-LAR-12054-1	c 27	N79-33316 *	NASA-CASE-LAR-12775-1	c 27	N83-28240 *	NASA-CASE-LAR-13435-1	c 37	N88-23981 *
NASA-CASE-LAR-12054-2	c 27	N81-14078 *	NASA-CASE-LAR-12775-2	c 27	N85-21349 *	NASA-CASE-LAR-13436-1-CU	c 02	N88-23759 *
NASA-CASE-LAR-12065-1	c 24	N81-14000 *	NASA-CASE-LAR-12785-1	c 37	N84-16561 *	NASA-CASE-LAR-13438-1	c 31	N89-12786 *
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NASA-CASE-LAR-12077-1	c 31	N81-25259 *	NASA-CASE-LAR-12787-2	c 08	N85-19985 *	NASA-CASE-LAR-13444-1-CU	c 27	N87-22847 *
NASA-CASE-LAR-12095-1	c 31	N81-25258 *	NASA-CASE-LAR-12801-1	c 37	N88-23982 *	NASA-CASE-LAR-13444-2-CU	c 23	N89-12667 *
NASA-CASE-LAR-12099-1	c 27	N80-16158 *	NASA-CASE-LAR-12807-1	c 24	N84-11214 *	NASA-CASE-LAR-13447-1	c 27	N88-18725 *
NASA-CASE-LAR-12106-1	c 71	N78-14867 *	NASA-CASE-LAR-12838-1	c 27	N83-34040 *	NASA-CASE-LAR-13448-1	c 27	N86-24840 *
NASA-CASE-LAR-12147-1	c 31	N79-11246 *	NASA-CASE-LAR-12843-1	c 02	N84-11136 *	NASA-CASE-LAR-13450-1	c 27	N87-28657 *
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NASA-CASE-LEW-10805-3	c 26	N74-10521 *		NASA-CASE-LEW-12050-1	c 35	N77-32454 *	NASA-CASE-LEW-12906-1	c 26	N77-32279 *
NASA-CASE-LEW-10814-1	c 28	N70-35422 *	#	NASA-CASE-LEW-12051-1	c 52	N75-33640 *	NASA-CASE-LEW-12907-2	c 07	N81-19115 *
NASA-CASE-LEW-10835-1	c 28	N72-22771 *		NASA-CASE-LEW-12053-1	c 27	N78-15276 *	NASA-CASE-LEW-12916-1	c 37	N78-17384 *
NASA-CASE-LEW-10856-1	c 15	N72-22490 *		NASA-CASE-LEW-12053-2	c 27	N79-28307 *	NASA-CASE-LEW-12917-1	c 07	N78-18087 *
NASA-CASE-LEW-10874-1	c 17	N72-22535 *		NASA-CASE-LEW-12078-1	c 35	N75-30503 *	NASA-CASE-LEW-12918-1	c 44	N81-24521 *
NASA-CASE-LEW-10906-1	c 25	N74-30502 *		NASA-CASE-LEW-12081-1	c 28	N78-24365 *	NASA-CASE-LEW-12919-1	c 24	N83-10117 *
NASA-CASE-LEW-10920-1	c 17	N73-24569 *		NASA-CASE-LEW-12081-2	c 28	N80-20402 *	NASA-CASE-LEW-12919-2	c 70	N84-28565 *
NASA-CASE-LEW-10950-1	c 33	N74-27683 *		NASA-CASE-LEW-12081-3	c 28	N81-14103 *	NASA-CASE-LEW-12933-1	c 27	N81-19296 *
NASA-CASE-LEW-10965-1	c 15	N72-25452 *		NASA-CASE-LEW-12082-1	c 20	N77-10148 *	NASA-CASE-LEW-12938-1	c 07	N82-32366 *
NASA-CASE-LEW-10981-1	c 35	N74-21018 *		NASA-CASE-LEW-12083-1	c 37	N78-13436 *	NASA-CASE-LEW-12940-1	c 72	N80-33186 *
NASA-CASE-LEW-11005-1	c 09	N72-21243 *		NASA-CASE-LEW-12094-1	c 76	N76-25049 *	NASA-CASE-LEW-12941-1	c 26	N83-10170 *
NASA-CASE-LEW-11015	c 26	N73-32571 *		NASA-CASE-LEW-12095-1	c 26	N78-18182 *	NASA-CASE-LEW-12950-1	c 34	N82-11399 *
NASA-CASE-LEW-11026-1	c 15	N73-33383 *		NASA-CASE-LEW-12118-1	c 24	N77-27188 *	NASA-CASE-LEW-12950-2	c 34	N85-29179 *
NASA-CASE-LEW-11058-1	c 20	N74-13502 *		NASA-CASE-LEW-12119-1	c 37	N80-28711 *	NASA-CASE-LEW-12955-1	c 52	N80-14684 *
NASA-CASE-LEW-11065-2	c 44	N76-14600 *		NASA-CASE-LEW-12119-2	c 37	N81-26447 *	NASA-CASE-LEW-12971-1	c 07	N80-18039 *
NASA-CASE-LEW-11069-1	c 44	N74-14784 *		NASA-CASE-LEW-12131-1	c 37	N79-18318 *	NASA-CASE-LEW-12972-1	c 44	N79-25481 *
NASA-CASE-LEW-11072-1	c 14	N73-24472 *		NASA-CASE-LEW-12131-2	c 37	N80-26658 *	NASA-CASE-LEW-12982-1	c 37	N81-19455 *
NASA-CASE-LEW-11072-2	c 35	N76-15434 *		NASA-CASE-LEW-12137-1	c 37	N82-19540 *	NASA-CASE-LEW-12989-1	c 37	N82-12442 *
NASA-CASE-LEW-11076-1	c 37	N74-21061 *		NASA-CASE-LEW-12159-1	c 25	N78-10224 *	NASA-CASE-LEW-12990-1	c 07	N81-29129 *
NASA-CASE-LEW-11076-2	c 37	N74-32921 *		NASA-CASE-LEW-12164-1	c 44	N78-19599 *	NASA-CASE-LEW-12991-1	c 37	N81-24442 *
NASA-CASE-LEW-11076-3	c 37	N75-30562 *		NASA-CASE-LEW-12174-2	c 36	N77-32478 *	NASA-CASE-LEW-12995-1	c 37	N84-33808 *
NASA-CASE-LEW-11076-4	c 37	N76-15461 *		NASA-CASE-LEW-12185-1	c 35	N79-14346 *	NASA-CASE-LEW-13027-1	c 27	N80-24437 *
NASA-CASE-LEW-11087-1	c 15	N73-30458 *		NASA-CASE-LEW-12217-1	c 44	N78-25528 *	NASA-CASE-LEW-13028-1	c 27	N82-33521 *
NASA-CASE-LEW-11087-2	c 37	N74-15128 *		NASA-CASE-LEW-12220-1	c 43	N78-14452 *	NASA-CASE-LEW-13050-1	c 07	N79-14095 *
NASA-CASE-LEW-11087-3	c 37	N74-21064 *		NASA-CASE-LEW-12232-1	c 44	N77-14581 *	NASA-CASE-LEW-13088-1	c 26	N81-25188 *
NASA-CASE-LEW-11101-1	c 31	N73-32750 *		NASA-CASE-LEW-12236-2	c 07	N79-10057 *	NASA-CASE-LEW-13101-2	c 23	N81-29160 *
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NASA-CASE-LEW-11118-2	c 20	N76-14191 *		NASA-CASE-LEW-12252-1	c 26	N77-20201 *	NASA-CASE-LEW-13103-1	c 27	N80-32516 *
NASA-CASE-LEW-11152-1	c 15	N73-32359 *		NASA-CASE-LEW-12253-1	c 34	N79-13288 *	NASA-CASE-LEW-13107-1	c 52	N83-21785 *
NASA-CASE-LEW-11158-1	c 37	N77-28486 *		NASA-CASE-LEW-12258-1	c 74	N83-19596 *	NASA-CASE-LEW-13120-2	c 52	N84-23095 *
NASA-CASE-LEW-11159-1	c 14	N73-28488 *		NASA-CASE-LEW-12270-1	c 52	N77-28716 *	NASA-CASE-LEW-13120-1	c 27	N82-28440 *
NASA-CASE-LEW-11162-1	c 33	N74-12913 *		NASA-CASE-LEW-12274-1	c 26	N77-32280 *	NASA-CASE-LEW-13131-1	c 44	N83-10494 *
NASA-CASE-LEW-11169-1	c 37	N76-23570 *		NASA-CASE-LEW-12296-1	c 37	N80-31790 *	NASA-CASE-LEW-13132-1	c 27	N83-29388 *
NASA-CASE-LEW-11179-1	c 27	N76-16229 *		NASA-CASE-LEW-12312-1	c 33	N82-26568 *	NASA-CASE-LEW-13135-2	c 27	N81-24257 *
NASA-CASE-LEW-11180-1	c 25	N73-25760 *		NASA-CASE-LEW-12313-1	c 07	N77-32148 *	NASA-CASE-LEW-13142-1	c 07	N83-36029 *
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NASA-CASE-LEW-11188-1	c 02	N74-20646 *		NASA-CASE-LEW-12321-1	c 07	N78-17055 *	NASA-CASE-LEW-13148-1	c 33	N80-20487 *
NASA-CASE-LEW-11192-1	c 09	N73-13208 *		NASA-CASE-LEW-12358-1	c 37	N78-10467 *	NASA-CASE-LEW-13148-2	c 44	N81-29524 *
NASA-CASE-LEW-11227-1	c 73	N75-30876 *		NASA-CASE-LEW-12358-2	c 44	N79-17313 *	NASA-CASE-LEW-13150-1	c 44	N79-26474 *
NASA-CASE-LEW-11262-1	c 27	N74-13270 *		NASA-CASE-LEW-12364-1	c 25	N82-21268 *	NASA-CASE-LEW-13169-1	c 26	N82-29415 *
NASA-CASE-LEW-11267-1	c 17	N73-32414 *		NASA-CASE-LEW-12378-1	c 44	N77-22606 *	NASA-CASE-LEW-13169-2	c 26	N82-30371 *
NASA-CASE-LEW-11274-1	c 37	N75-21631 *		NASA-CASE-LEW-12378-2					

NASA-CASE-LEW-13174-1	c 34	N83-27144 *	NASA-CASE-LEW-14472-1	c 24	N89-14259 *	NASA-CASE-MFS-20242	c 14	N73-19421 *
NASA-CASE-LEW-13199-1	c 07	N82-26293 *	NASA-CASE-LEW-14520-1	c 33	N88-23936 *	NASA-CASE-MFS-20243	c 23	N73-13662 *
NASA-CASE-LEW-13201-1	c 07	N81-14999 *	NASA-CASE-LEW-14586-1	c 07	N83-31603 *	NASA-CASE-MFS-20249	c 15	N72-11386 *
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NASA-CASE-LEW-13246-1	c 44	N83-27344 *	NASA-CASE-LEW-14676-2	c 76	N90-17454 *	NASA-CASE-MFS-20284-1	c 52	N74-12778 *
NASA-CASE-LEW-13268-1	c 27	N82-29453 *	NASA-CASE-LEW-14679-1	c 27	N89-28651 *	NASA-CASE-MFS-20299	c 15	N72-11392 *
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NASA-CASE-LEW-13269-1	c 18	N83-20996 *	NASA-CASE-LEW-14698-1	c 24	N88-29888 *	NASA-CASE-MFS-20325	c 28	N71-27095 *
NASA-CASE-LEW-13269-2	c 37	N84-22957 *	NASA-CASE-LEW-14698-2	c 27	N90-15262 *	NASA-CASE-MFS-20332-2	c 05	N73-25125 *
NASA-CASE-LEW-13282-1	c 33	N82-24415 *	NASA-CASE-LEW-14734-1	c 24	N89-23623 *	NASA-CASE-MFS-20332	c 05	N72-20097 *
NASA-CASE-LEW-13286-1	c 33	N84-14422 *	NASA-CASE-LEW-14746-1	c 33	N90-17009 *	NASA-CASE-MFS-20333	c 09	N71-13486 *
NASA-CASE-LEW-13324-2	c 24	N85-21266 *	NASA-CASE-LEW-14776-1	c 37	N90-15445 *	NASA-CASE-MFS-20335-1	c 35	N74-10415 *
NASA-CASE-LEW-13339-1	c 26	N82-31505 *	NASA-CASE-LEW-14795-1	c 74	N90-15733 *	NASA-CASE-MFS-20355	c 33	N71-25353 *
NASA-CASE-LEW-13343-1	c 27	N82-28441 *	NASA-CASE-LEW-14846-1	c 20	N90-15130 *	NASA-CASE-MFS-20385	c 09	N71-24904 *
NASA-CASE-LEW-13343	c 26	N83-31795 *	NASA-CASE-LEW-14848-1	c 14	N89-28549 *	NASA-CASE-MFS-20386	c 21	N71-19212 *
NASA-CASE-LEW-13349-1	c 26	N84-22734 *	NASA-CASE-LEW-14880-1	c 35	N90-10415 *	NASA-CASE-MFS-20395	c 15	N71-24903 *
NASA-CASE-LEW-1335901	c 27	N83-31855 *	NASA-CASE-LEW-14901-1	c 75	N90-10718 *	NASA-CASE-MFS-20400	c 31	N71-18611 *
NASA-CASE-LEW-13400-1	c 44	N82-31764 *	NASA-CASE-LEW-14990-1-CU	c 24	N90-15147 *	NASA-CASE-MFS-20407	c 09	N73-19235 *
NASA-CASE-LEW-13401-1	c 44	N82-29709 *	NASA-CASE-LEW-23169-2	c 26	N81-16209 *	NASA-CASE-MFS-20408	c 18	N73-12604 *
NASA-CASE-LEW-13401-2	c 44	N83-32177 *				NASA-CASE-MFS-20410	c 15	N71-19214 *
NASA-CASE-LEW-13414-1	c 44	N85-20530 *	NASA-CASE-MFS-06074	c 15	N71-20393 *	NASA-CASE-MFS-20413	c 15	N72-21463 *
NASA-CASE-LEW-13426-1	c 25	N84-16276 *	NASA-CASE-MFS-07369	c 15	N71-20443 *	NASA-CASE-MFS-20418	c 14	N73-24473 *
NASA-CASE-LEW-13429-1	c 33	N83-31952 *	NASA-CASE-MFS-10068	c 10	N71-25139 *	NASA-CASE-MFS-20423	c 15	N72-11388 *
NASA-CASE-LEW-13450-1	c 31	N83-35177 *	NASA-CASE-MFS-10340	c 15	N71-17628 *	NASA-CASE-MFS-20433	c 15	N72-28496 *
NASA-CASE-LEW-13495-1	c 33	N84-33663 *	NASA-CASE-MFS-10412	c 12	N71-17578 *	NASA-CASE-MFS-20434	c 11	N72-25288 *
NASA-CASE-LEW-13504-1	c 25	N83-13188 *	NASA-CASE-MFS-10506	c 06	N73-30100 *	NASA-CASE-MFS-20453	c 15	N71-29133 *
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NASA-CASE-LEW-13524-1	c 07	N84-33410 *	NASA-CASE-MFS-10509	c 06	N73-30103 *	NASA-CASE-MFS-20485	c 14	N72-11365 *
NASA-CASE-LEW-13526-1	c 36	N84-22944 *	NASA-CASE-MFS-10512	c 06	N73-30099 *	NASA-CASE-MFS-20486-2	c 27	N74-12783 *
NASA-CASE-LEW-13556-1	c 44	N81-27615 *	NASA-CASE-MFS-10555	c 11	N71-19494 *	NASA-CASE-MFS-20506-1	c 35	N75-12273 *
NASA-CASE-LEW-13562-2	c 07	N85-35195 *	NASA-CASE-MFS-10946-1	c 31	N79-21226 *	NASA-CASE-MFS-20509	c 11	N72-17183 *
NASA-CASE-LEW-13570-1	c 33	N84-16452 *	NASA-CASE-MFS-11132	c 15	N71-17649 *	NASA-CASE-MFS-20523	c 14	N72-27412 *
NASA-CASE-LEW-13598-1	c 35	N84-22930 *	NASA-CASE-MFS-11133	c 31	N71-16222 *	NASA-CASE-MFS-20546-2	c 14	N73-30389 *
NASA-CASE-LEW-13609-1	c 25	N90-11824 *	NASA-CASE-MFS-11204	c 14	N71-29134 *	NASA-CASE-MFS-20586	c 15	N71-17686 *
NASA-CASE-LEW-13620-1	c 44	N83-13579 *	NASA-CASE-MFS-11279	c 16	N71-20400 *	NASA-CASE-MFS-20589	c 25	N72-32688 *
NASA-CASE-LEW-13622-1	c 07	N84-22559 *	NASA-CASE-MFS-11492	c 06	N73-30102 *	NASA-CASE-MFS-20596	c 14	N72-17324 *
NASA-CASE-LEW-13639-1	c 26	N84-33555 *	NASA-CASE-MFS-11497	c 28	N71-16224 *	NASA-CASE-MFS-20607-1	c 37	N76-19436 *
NASA-CASE-LEW-13639-2	c 26	N84-27855 *	NASA-CASE-MFS-11537	c 14	N71-20442 *	NASA-CASE-MFS-20619	c 28	N72-11708 *
NASA-CASE-LEW-13653-1	c 44	N84-28205 *	NASA-CASE-MFS-12750	c 27	N71-16223 *	NASA-CASE-MFS-20620	c 11	N72-27282 *
NASA-CASE-LEW-13654-1	c 07	N84-22560 *	NASA-CASE-MFS-12805	c 15	N71-17805 *	NASA-CASE-MFS-20642	c 14	N72-21407 *
NASA-CASE-LEW-13670-1	c 37	N86-19606 *	NASA-CASE-MFS-12806	c 14	N71-17588 *	NASA-CASE-MFS-20645-1	c 37	N74-23070 *
NASA-CASE-LEW-13717-1	c 37	N85-30333 *	NASA-CASE-MFS-12827	c 14	N71-17656 *	NASA-CASE-MFS-20658-1	c 14	N73-30386 *
NASA-CASE-LEW-13736-1	c 33	N84-27974 *	NASA-CASE-MFS-12915	c 11	N71-17600 *	NASA-CASE-MFS-20673	c 14	N73-20476 *
NASA-CASE-LEW-13758-1	c 24	N84-27829 *	NASA-CASE-MFS-13046	c 07	N71-19433 *	NASA-CASE-MFS-20675	c 26	N73-26751 *
NASA-CASE-LEW-13770-1	c 27	N84-27885 *	NASA-CASE-MFS-13130	c 10	N72-17173 *	NASA-CASE-MFS-20698-2	c 15	N73-19457 *
NASA-CASE-LEW-13770-2	c 25	N85-28982 *	NASA-CASE-MFS-13532	c 18	N72-17532 *	NASA-CASE-MFS-20698	c 15	N72-20446 *
NASA-CASE-LEW-13770-3	c 27	N85-21350 *	NASA-CASE-MFS-13686	c 15	N71-18132 *	NASA-CASE-MFS-20710	c 11	N72-23215 *
NASA-CASE-LEW-13770-4	c 27	N85-21351 *	NASA-CASE-MFS-13687-2	c 09	N72-22198 *	NASA-CASE-MFS-20730-1	c 39	N74-13131 *
NASA-CASE-LEW-13770-5	c 27	N85-21352 *	NASA-CASE-MFS-13687	c 09	N71-28691 *	NASA-CASE-MFS-20757	c 09	N72-28225 *
NASA-CASE-LEW-13770-6	c 25	N85-30039 *	NASA-CASE-MFS-13929	c 15	N71-27091 *	NASA-CASE-MFS-20760	c 14	N72-33377 *
NASA-CASE-LEW-13773-2	c 33	N86-20671 *	NASA-CASE-MFS-13994-1	c 06	N71-11240 *	NASA-CASE-MFS-20761-1	c 44	N74-27519 *
NASA-CASE-LEW-13822-1	c 44	N86-25874 *	NASA-CASE-MFS-13994-2	c 06	N72-25148 *	NASA-CASE-MFS-20767-1	c 38	N74-15130 *
NASA-CASE-LEW-13827-1	c 44	N85-21768 *	NASA-CASE-MFS-14017	c 14	N71-26627 *	NASA-CASE-MFS-20774	c 14	N73-19420 *
NASA-CASE-LEW-13828-1	c 24	N85-30027 *	NASA-CASE-MFS-14023	c 33	N71-25351 *	NASA-CASE-MFS-20775-1	c 31	N75-12161 *
NASA-CASE-LEW-13833-1	c 33	N85-21492 *	NASA-CASE-MFS-14114-2	c 09	N71-24807 *	NASA-CASE-MFS-20809	c 23	N73-13660 *
NASA-CASE-LEW-13834-1	c 26	N87-14482 *	NASA-CASE-MFS-14114	c 33	N71-27862 *	NASA-CASE-MFS-20823-1	c 16	N73-30476 *
NASA-CASE-LEW-13837-1	c 24	N84-22695 *	NASA-CASE-MFS-14216	c 14	N73-13418 *	NASA-CASE-MFS-20829	c 12	N72-21310 *
NASA-CASE-LEW-13837-2	c 24	N85-21267 *	NASA-CASE-MFS-14253	c 33	N71-24858 *	NASA-CASE-MFS-20830	c 15	N71-30028 *
NASA-CASE-LEW-13864-1	c 27	N86-19457 *	NASA-CASE-MFS-14259	c 15	N71-19213 *	NASA-CASE-MFS-20831	c 28	N71-29153 *
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NASA-CASE-LEW-13899-1	c 31	N87-21160 *	NASA-CASE-MFS-14405	c 15	N72-28495 *	NASA-CASE-MFS-20855	c 15	N73-27405 *
NASA-CASE-LEW-13914-1	c 37	N85-33489 *	NASA-CASE-MFS-14610	c 09	N71-28886 *	NASA-CASE-MFS-20861-1	c 18	N73-32437 *
NASA-CASE-LEW-13922-1	c 33	N86-20672 *	NASA-CASE-MFS-14671	c 05	N71-12341 *	NASA-CASE-MFS-20863	c 31	N73-26876 *
NASA-CASE-LEW-13923-1	c 26	N85-35267 *	NASA-CASE-MFS-14685	c 31	N71-15689 *	NASA-CASE-MFS-20890	c 14	N72-22439 *
NASA-CASE-LEW-13934-1	c 35	N83-35338 *	NASA-CASE-MFS-14710	c 09	N72-22195 *	NASA-CASE-MFS-20916	c 14	N73-25460 *
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NASA-CASE-LEW-13981-2	c 33	N86-21742 *	NASA-CASE-MFS-14741	c 09	N70-20737 *	NASA-CASE-MFS-20922	c 31	N72-20840 *
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NASA-CASE-LEW-14035-1	c 07	N84-24577 *	NASA-CASE-MFS-14971	c 15	N71-24984 *	NASA-CASE-MFS-20935	c 09	N71-34212 *
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NASA-CASE-LEW-14039-1	c 34	N85-33433 *	NASA-CASE-MFS-15162	c 14	N72-32452 *	NASA-CASE-MFS-20979-2	c 06	N73-32030 *
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NASA-CASE-LEW-14072-2	c 27	N86-32569 *	NASA-CASE-MFS-15670-1	c 33	N82-33634 *	NASA-CASE-MFS-21010-1	c 05	N73-30078 *
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NASA-CASE-MSC-20797-1	c 37	N87-23981 *	NASA-CASE-NPO-10185	c 10	N71-26339 *	NASA-CASE-NPO-10767-1	c 06	N73-33076 *
NASA-CASE-MSC-20812-1	c 34	N86-27593 *	NASA-CASE-NPO-10188	c 03	N71-20273 *	NASA-CASE-NPO-10767-2	c 06	N72-27151 *
NASA-CASE-MSC-20821-1	c 17	N87-25348 *	NASA-CASE-NPO-10189-1	c 33	N77-21314 *	NASA-CASE-NPO-10768-2	c 06	N72-27144 *
NASA-CASE-MSC-20840-1	c 34	N88-29132 *	NASA-CASE-NPO-10194	c 03	N71-20407 *	NASA-CASE-NPO-10768	c 06	N72-27254 *
NASA-CASE-MSC-20841-1	c 34	N87-22950 *	NASA-CASE-NPO-10198	c 09	N71-24806 *	NASA-CASE-NPO-10769	c 08	N72-11171 *
NASA-CASE-MSC-20841-2	c 34	N88-23958 *	NASA-CASE-NPO-10199	c 09	N72-17156 *	NASA-CASE-NPO-10774	c 06	N72-17095 *
NASA-CASE-MSC-20857-1	c 37	N87-17035 *	NASA-CASE-NPO-10201	c 08	N71-18694 *	NASA-CASE-NPO-10778	c 14	N72-11364 *
NASA-CASE-MSC-20865-1	c 32	N87-18692 *	NASA-CASE-NPO-10214	c 10	N71-26577 *	NASA-CASE-NPO-10781-1	c 33	N77-21314 *
NASA-CASE-MSC-20867-1	c 36	N88-24958 *	NASA-CASE-NPO-10230	c 09	N71-12520 *	NASA-CASE-NPO-10790-1	c 33	N77-21316 *
NASA-CASE-MSC-20873-1-SB	c 32	N89-11961 *	NASA-CASE-NPO-10231	c 07	N71-26101 *	NASA-CASE-NPO-10796	c 15	N71-27068 *
NASA-CASE-MSC-20900-1	c 37	N88-30131 *	NASA-CASE-NPO-10233-1	c 74	N78-33913 *	NASA-CASE-NPO-10808	c 15	N71-27432 *
NASA-CASE-MSC-20906-2	c 35	N89-15379 *	NASA-CASE-NPO-10234	c 06	N72-17094 *	NASA-CASE-NPO-10810	c 14	N71-27323 *
NASA-CASE-MSC-20907-1	c 37	N87-18818 *	NASA-CASE-NPO-10242	c 09	N71-24803 *	NASA-CASE-NPO-10812	c 15	N73-13464 *
NASA-CASE-MSC-20910-1	c 37	N87-25582 *	NASA-CASE-NPO-10244	c 15	N72-26371 *	NASA-CASE-NPO-10817-1	c 08	N73-30135 *
NASA-CASE-MSC-20912-1	c 32	N88-26568 *	NASA-CASE-NPO-10250	c 23	N71-16212 *	NASA-CASE-NPO-10821	c 03	N71-19545 *
NASA-CASE-MSC-20929-1	c 51	N90-17252 *	NASA-CASE-NPO-10251	c 10	N71-27365 *	NASA-CASE-NPO-10828	c 33	N72-17948 *
NASA-CASE-MSC-20946-1	c 34	N87-28867 *	NASA-CASE-NPO-10271	c 17	N71-16393 *	NASA-CASE-NPO-10830-1	c 27	N81-15104 *
NASA-CASE-MSC-20964-1	c 60	N87-14863 *	NASA-CASE-NPO-10298	c 12	N71-17661 *	NASA-CASE-NPO-10831	c 33	N72-20915 *
NASA-CASE-MSC-20979-1	c 37	N87-22985 *	NASA-CASE-NPO-10300	c 14	N71-17662 *	NASA-CASE-NPO-10832	c 14	N72-21405 *
NASA-CASE-MSC-20985-1	c 18	N88-26398 *	NASA-CASE-NPO-10301	c 07	N72-11148 *	NASA-CASE-NPO-10844	c 07	N72-20140 *
NASA-CASE-MSC-21025-1	c 31	N87-25495 *	NASA-CASE-NPO-10302	c 10	N71-26142 *	NASA-CASE-NPO-10851	c 07	N71-24613 *
NASA-CASE-MSC-21056-1	c 18	N88-23827 *	NASA-CASE-NPO-10303	c 07	N72-22127 *	NASA-CASE-NPO-10857-1	c 33	N80-14330 *
NASA-CASE-MSC-21059-1	c 35	N89-12843 *	NASA-CASE-NPO-10309	c 15	N69-23190 *	NASA-CASE-NPO-10862	c 06	N72-22107 *
NASA-CASE-MSC-21082-1	c 27	N87-29672 *	NASA-CASE-NPO-10311	c 31	N71-15643 *	NASA-CASE-NPO-10863-2	c 06	N72-25152 *
NASA-CASE-MSC-21094-1	c 35	N88-24941 *	NASA-CASE-NPO-10316-1	c 37	N77-22479 *	NASA-CASE-NPO-10863	c 06	N70-11251 *
NASA-CASE-MSC-21095-1	c 37	N89-12866 *	NASA-CASE-NPO-10320	c 14	N71-17655 *	NASA-CASE-NPO-10866-1	c 28	N79-14228 *
NASA-CASE-MSC-21096-1	c 18	N89-12621 *	NASA-CASE-NPO-10331	c 09	N71-26701 *	NASA-CASE-NPO-10870-1	c 33	N77-22386 *
NASA-CASE-MSC-21117-1	c 18	N88-28958 *	NASA-CASE-NPO-10337	c 14	N71-15604 *	NASA-CASE-NPO-10872-1	c 35	N79-16246 *
NASA-CASE-MSC-21117-2	c 18	N88-28554 *	NASA-CASE-NPO-10342	c 10	N71-33407 *	NASA-CASE-NPO-10883	c 31	N72-22874 *
NASA-CASE-MSC-21132-1	c 37	N88-29181 *	NASA-CASE-NPO-10343	c 07	N71-27341 *	NASA-CASE-NPO-10890	c 11	N73-12265 *
NASA-CASE-MSC-21166-1	c 35	N87-25555 *	NASA-CASE-NPO-10344	c 10	N71-26544 *	NASA-CASE-NPO-10893	c 27	N73-22710 *
NASA-CASE-MSC-21169-1	c 17	N89-29539 *	NASA-CASE-NPO-10348	c 10	N71-12554 *	NASA-CASE-NPO-10895	c 14	N73-20478 *
NASA-CASE-MSC-21170-1	c 27	N88-24662 *	NASA-CASE-NPO-10351	c 08	N71-12503 *	NASA-CASE-NPO-10998-1	c 06	N73-32029 *
NASA-CASE-MSC-21171-1	c 37	N88-23973 *	NASA-CASE-NPO-10373	c 03	N71-18698 *	NASA-CASE-NPO-10999-1	c 06	N73-32029 *
NASA-CASE-MSC-21207-1	c 37	N88-29180 *	NASA-CASE-NPO-10388	c 07	N71-24622 *	NASA-CASE-NPO-11001	c 07	N72-21118 *
NASA-CASE-MSC-21211-1	c 18	N89-28553 *	NASA-CASE-NPO-10401	c 03	N72-20033 *	NASA-CASE-NPO-11002	c 14	N72-22441 *
NASA-CASE-MSC-21293-1	c 51	N89-14666 *	NASA-CASE-NPO-10404	c 03	N71-12255 *	NASA-CASE-NPO-11012	c 15	N72-11391 *
NASA-CASE-MSC-21294-1	c 20	N88-24684 *	NASA-CASE-NPO-10412	c 09	N71-28421 *	NASA-CASE-NPO-11013	c 11	N72-22247 *
NASA-CASE-MSC-21299-1	c 18	N90-11798 *	NASA-CASE-NPO-10416	c 12	N71-27332 *	NASA-CASE-NPO-11016	c 08	N72-31226 *
NASA-CASE-MSC-21327-1	c 16	N88-24660 *	NASA-CASE-NPO-10417	c 16	N71-33410 *	NASA-CASE-NPO-11018	c 08	N72-21200 *
NASA-CASE-MSC-21330-1	c 03	N89-11724 *	NASA-CASE-NPO-10424-1	c 27	N81-24258 *	NASA-CASE-NPO-11021	c 03	N72-20032 *
NASA-CASE-MSC-21332-1	c 16	N89-11724 *	NASA-CASE-NPO-10431	c 15	N71-29132 *	NASA-CASE-NPO-11023	c 09	N72-17155 *
NASA-CASE-MSC-21334-1	c 32	N89-25360 *	NASA-CASE-NPO-10440	c 15	N72-21466 *	NASA-CASE-NPO-11031	c 07	N71-33606 *
NASA-CASE-MSC-21348-1	c 62	N89-24084 *	NASA-CASE-NPO-10447	c 06	N70-11252 *	NASA-CASE-NPO-11036	c 15	N72-24522 *
NASA-CASE-MSC-21354-1	c 37	N88-24969 *	NASA-CASE-NPO-10467	c 23	N71-26654 *	NASA-CASE-NPO-11059	c 15	N72-17454 *
NASA-CASE-MSC-21356-1	c 18	N90-19278 *	NASA-CASE-NPO-10468	c 23	N71-33229 *	NASA-CASE-NPO-11064	c 07	N72-11150 *
NASA-CASE-MSC-21360-1	c 18	N89-25263 *	NASA-CASE-NPO-10539	c 07	N71-11285 *	NASA-CASE-NPO-11078	c 09	N72-25262 *
NASA-CASE-MSC-21361-1	c 51	N89-25557 *	NASA-CASE-NPO-10542	c 09	N72-27228 *	NASA-CASE-NPO-11082	c 08	N72-22167 *
NASA-CASE-MSC-21364-1	c 54	N89-13889 *	NASA-CASE-NPO-10548	c 16	N71-24831 *	NASA-CASE-NPO-11087	c 23	N71-29125 *
NASA-CASE-MSC-21366-1	c 54	N89-12206 *	NASA-CASE-NPO-10556	c 14	N71-27185 *	NASA-CASE-NPO-11088	c 08	N71-29034 *
NASA-CASE-MSC-21372-1	c 35	N89-12842 *	NASA-CASE-NPO-10557	c 27	N78-17214 *	NASA-CASE-NPO-11091	c 18	N72-22567 *
NASA-CASE-MSC-21387-1	c 61	N90-16411 *	NASA-CASE-NPO-10560	c 08	N72-22166 *	NASA-CASE-NPO-11095	c 15	N72-25455 *
NASA-CASE-MSC-21408-1	c 37	N89-28829 *	NASA-CASE-NPO-10567	c 08	N71-24633 *	NASA-CASE-NPO-11103-1	c 35	N77-27367 *
NASA-CASE-MSC-21428-1	c 33	N90-17008 *	NASA-CASE-NPO-10575	c 03	N72-25019 *	NASA-CASE-NPO-11104	c 08	N72-22165 *
NASA-CASE-MSC-21434-1	c 37	N90-17138 *	NASA-CASE-NPO-10591	c 03	N72-22041 *	NASA-CASE-NPO-11106	c 14	N70-34697 *
NASA-CASE-MSC-21465-1	c 61	N90-16410 *	NASA-CASE-NPO-10595	c 10	N71-25917 *	NASA-CASE-NPO-11118	c 03	N72-25021 *
NASA-CASE-MSC-21470-1	c 09	N90-16771 *	NASA-CASE-NPO-10596	c 06	N71-25929 *	NASA-CASE-NPO-11120-1	c 34	N74-18552 *
NASA-CASE-MSC-21476-1	c 37	N90-17137 *	NASA-CASE-NPO-10606	c 15	N72-25451 *	NASA-CASE-NPO-11129	c 09	N72-33204 *
NASA-CASE-MSC-21487-1	c 25	N90-16887 *	NASA-CASE-NPO-10607	c 09	N71-27322 *	NASA-CASE-NPO-11130	c 08	N72-20176 *
NASA-CASE-MSC-21503-1	c 27	N90-16925 *	NASA-CASE-NPO-10617-1	c 35	N74-22095 *	NASA-CASE-NPO-11133	c 10	N72-20223 *
NASA-CASE-MSC-21560-1	c 51	N90-18852 *	NASA-CASE-NPO-10619-1	c 35	N77-21393 *	NASA-CASE-NPO-11134	c 09	N72-21246 *
NASA-CASE-MSC-21629-1	c 54	N89-29027 *	NASA-CASE-NPO-10625	c 09	N71-26182 *	NASA-CASE-NPO-11138	c 03	N70-34646 *
NASA-CASE-MSC-25707-1	c 35	N85-29214 *	NASA-CASE-NPO-10629	c 08	N72-18184 *	NASA-CASE-NPO-11140	c 15	N72-17455 *
NASA-CASE-MSC-90153-2	c 05	N72-25120 *	NASA-CASE-NPO-10633	c 03	N72-28025 *	NASA-CASE-NPO-11147	c 14	N72-27408 *
			NASA-CASE-NPO-10634	c 23	N72-25619 *	NASA-CASE-NPO-11150	c 35	N78-17359 *
NASA-CASE-NPO-08835-1	c 27	N78-33228 *	NASA-CASE-NPO-10636	c 08	N72-25210 *	NASA-CASE-NPO-11156-2	c 33	N75-31331 *
NASA-CASE-NPO-10003	c 10	N71-26415 *	NASA-CASE-NPO-10637	c 15	N72-12409 *	NASA-CASE-NPO-11161	c 08	N72-25207 *
NASA-CASE-NPO-10034	c 15	N71-17685 *	NASA-CASE-NPO-10646	c 15	N71-28467 *	NASA-CASE-NPO-11177	c 15	N72-17453 *
NASA-CASE-NPO-10037	c 09	N71-19610 *	NASA-CASE-NPO-10649	c 07	N71-24840 *	NASA-CASE-NPO-11190	c 03	N71-34044 *
NASA-CASE-NPO-10046	c 28	N72-17843 *	NASA-CASE-NPO-10671	c 15	N72-20443 *	NASA-CASE-NPO-11191-1	c 33	N77-22386 *
NASA-CASE-NPO-10051	c 18	N71-24934 *	NASA-CASE-NPO-10677	c 05	N72-11084 *	NASA-CASE-NPO-11194	c 08	N72-25209 *
NASA-CASE-NPO-10064	c 15	N71-17693 *	NASA-CASE-NPO-10679	c 15	N72-21462 *	NASA-CASE-NPO-11201	c 14	N72-27409 *
NASA-CASE-NPO-10066	c 09	N71-18598 *	NASA-CASE-NPO-10680	c 31	N73-14855 *	NASA-CASE-NPO-11202	c 15	N72-25450 *
NASA-CASE-NPO-10068	c 08	N71-19288 *	NASA-CASE-NPO-10682	c 15	N70-34699 *	NASA-CASE-NPO-11203	c 10	N72-20224 *
NASA-CASE-NPO-10070	c 15	N71-27372 *	NASA-CASE-NPO-10691	c 14	N71-26199 *	NASA-CASE-NPO-11210	c 11	N72-20244 *

NASA-CASE-NPO-11213	c 15	N73-20514 *	NASA-CASE-NPO-11978	c 31	N78-17238 *	NASA-CASE-NPO-13459-1	c 31	N77-10229 *
NASA-CASE-NPO-11222	c 15	N72-25456 *	NASA-CASE-NPO-12000	c 27	N72-25699 *	NASA-CASE-NPO-13462-1	c 35	N76-24524 *
NASA-CASE-NPO-11239	c 14	N73-12446 *	NASA-CASE-NPO-12015	c 27	N73-16764 *	NASA-CASE-NPO-13464-1	c 44	N76-18642 *
NASA-CASE-NPO-11243	c 07	N72-20154 *	NASA-CASE-NPO-12061-1	c 27	N76-16228 *	NASA-CASE-NPO-13464-2	c 44	N76-29704 *
NASA-CASE-NPO-11253	c 09	N72-17157 *	NASA-CASE-NPO-12070-1	c 28	N73-32606 *	NASA-CASE-NPO-13465-1	c 32	N76-31372 *
NASA-CASE-NPO-11264	c 07	N72-25174 *	NASA-CASE-NPO-12072	c 28	N72-22772 *	NASA-CASE-NPO-13474-1	c 45	N76-21742 *
NASA-CASE-NPO-11282	c 10	N73-16205 *	NASA-CASE-NPO-12087-1	c 74	N81-19898 *	NASA-CASE-NPO-13479-1	c 35	N77-10492 *
NASA-CASE-NPO-11283	c 09	N72-25260 *	NASA-CASE-NPO-12106	c 09	N73-15235 *	NASA-CASE-NPO-13482-1	c 44	N78-13526 *
NASA-CASE-NPO-11291-1	c 14	N73-30388 *	NASA-CASE-NPO-12107	c 08	N71-27255 *	NASA-CASE-NPO-13490-1	c 36	N76-31512 *
NASA-CASE-NPO-11302-1	c 07	N73-13149 *	NASA-CASE-NPO-12109	c 11	N72-22245 *	NASA-CASE-NPO-13497-1	c 44	N76-14602 *
NASA-CASE-NPO-11302-2	c 32	N74-10132	NASA-CASE-NPO-12119-1	c 52	N75-15270 *	NASA-CASE-NPO-13504-1	c 33	N75-30430 *
NASA-CASE-NPO-11304	c 14	N73-26430 *	NASA-CASE-NPO-12122-1	c 24	N76-14203 *	NASA-CASE-NPO-13506-1	c 35	N76-15435 *
NASA-CASE-NPO-11307-1	c 10	N73-30205 *	NASA-CASE-NPO-12127-1	c 91	N74-13130 *	NASA-CASE-NPO-13510-1	c 44	N77-32581 *
NASA-CASE-NPO-11311	c 14	N72-25414 *	NASA-CASE-NPO-12128-1	c 14	N73-32317 *	NASA-CASE-NPO-13512-1	c 33	N77-10428 *
NASA-CASE-NPO-11317-2	c 36	N74-13205 *	NASA-CASE-NPO-12130-1	c 25	N75-14844 *	NASA-CASE-NPO-13519-1	c 33	N76-19338 *
NASA-CASE-NPO-11322	c 06	N72-25146 *	NASA-CASE-NPO-12131-3	c 37	N80-18400 *	NASA-CASE-NPO-13528-1	c 09	N77-10071 *
NASA-CASE-NPO-11330	c 33	N73-26958 *	NASA-CASE-NPO-12134-1	c 33	N76-31409 *	NASA-CASE-NPO-13530-1	c 25	N81-17187 *
NASA-CASE-NPO-11333	c 08	N72-22162 *	NASA-CASE-NPO-12142-1	c 38	N76-28563 *	NASA-CASE-NPO-13531-1	c 36	N76-24553 *
NASA-CASE-NPO-11336-1	c 76	N79-16678 *	NASA-CASE-NPO-12148-1	c 44	N78-27515 *	NASA-CASE-NPO-13535-1	c 37	N76-31524 *
NASA-CASE-NPO-11337-1	c 74	N81-19896 *	NASA-CASE-NPO-13044-1	c 35	N74-15094 *	NASA-CASE-NPO-13540-1	c 35	N77-14409 *
NASA-CASE-NPO-11338	c 08	N72-25208 *	NASA-CASE-NPO-13050-1	c 36	N75-15029 *	NASA-CASE-NPO-13541-1	c 37	N79-14383 *
NASA-CASE-NPO-11340	c 15	N72-33477 *	NASA-CASE-NPO-13058-1	c 37	N77-22480 *	NASA-CASE-NPO-13543-1	c 32	N77-12240 *
NASA-CASE-NPO-11342	c 09	N72-25248 *	NASA-CASE-NPO-13059-1	c 37	N76-20480 *	NASA-CASE-NPO-13544-1	c 36	N76-18428 *
NASA-CASE-NPO-11358	c 07	N72-25172 *	NASA-CASE-NPO-13063-1	c 25	N76-18245 *	NASA-CASE-NPO-13545-1	c 32	N77-12240 *
NASA-CASE-NPO-11361	c 07	N72-32169 *	NASA-CASE-NPO-13064-1	c 33	N79-11314 *	NASA-CASE-NPO-13550-1	c 36	N77-26477 *
NASA-CASE-NPO-11366	c 11	N73-26238 *	NASA-CASE-NPO-13065-1	c 52	N74-26625 *	NASA-CASE-NPO-13553-1	c 33	N76-32457 *
NASA-CASE-NPO-11369	c 15	N73-13467 *	NASA-CASE-NPO-13067-1	c 60	N76-18800 *	NASA-CASE-NPO-13556-1	c 35	N84-33766 *
NASA-CASE-NPO-11371	c 08	N73-12177 *	NASA-CASE-NPO-13081-1	c 33	N74-22814 *	NASA-CASE-NPO-13560-1	c 44	N77-10636 *
NASA-CASE-NPO-11373	c 13	N72-25323 *	NASA-CASE-NPO-13086-1	c 15	N73-12495 *	NASA-CASE-NPO-13561-1	c 44	N77-10636 *
NASA-CASE-NPO-11377	c 15	N73-27406 *	NASA-CASE-NPO-13087-2	c 44	N76-31666 *	NASA-CASE-NPO-13566-1	c 25	N77-32255 *
NASA-CASE-NPO-11387	c 14	N73-14429 *	NASA-CASE-NPO-13091-1	c 09	N73-12214 *	NASA-CASE-NPO-13567-1	c 44	N76-29701 *
NASA-CASE-NPO-11388	c 03	N72-23048 *	NASA-CASE-NPO-13096-1	c 37	N77-22480 *	NASA-CASE-NPO-13568-1	c 32	N76-21365 *
NASA-CASE-NPO-11403-1	c 33	N77-22386 *	NASA-CASE-NPO-13103-1	c 32	N74-20811 *	NASA-CASE-NPO-13569-2	c 35	N79-14348 *
NASA-CASE-NPO-11406	c 08	N73-12175 *	NASA-CASE-NPO-13105-1	c 37	N74-21060 *	NASA-CASE-NPO-13579-1	c 44	N78-17460 *
NASA-CASE-NPO-11417	c 15	N73-24513 *	NASA-CASE-NPO-13112-1	c 73	N74-26767 *	NASA-CASE-NPO-13579-2	c 44	N79-24433 *
NASA-CASE-NPO-11418-1	c 14	N73-13420 *	NASA-CASE-NPO-13114-2	c 73	N78-28913 *	NASA-CASE-NPO-13579-3	c 44	N79-24432 *
NASA-CASE-NPO-11426	c 07	N73-26119 *	NASA-CASE-NPO-13120-1	c 27	N76-15311 *	NASA-CASE-NPO-13579-4	c 44	N79-14529 *
NASA-CASE-NPO-11429-1	c 74	N77-21941 *	NASA-CASE-NPO-13121-1	c 73	N77-18891 *	NASA-CASE-NPO-13581-2	c 44	N78-31525 *
NASA-CASE-NPO-11432-2	c 35	N74-15090 *	NASA-CASE-NPO-13125-1	c 33	N75-19519 *	NASA-CASE-NPO-13587-1	c 32	N77-32342 *
NASA-CASE-NPO-11437	c 16	N72-28521 *	NASA-CASE-NPO-13127-1	c 35	N74-23040 *	NASA-CASE-NPO-13604-1	c 35	N76-31490 *
NASA-CASE-NPO-11456	c 08	N73-26176 *	NASA-CASE-NPO-13131-1	c 36	N75-19652 *	NASA-CASE-NPO-13606-2	c 35	N80-18364 *
NASA-CASE-NPO-11458A	c 20	N78-32179 *	NASA-CASE-NPO-13137-1	c 27	N80-32514 *	NASA-CASE-NPO-13613-1	c 37	N76-29590 *
NASA-CASE-NPO-11458	c 28	N72-23810 *	NASA-CASE-NPO-13138-1	c 33	N74-17927 *	NASA-CASE-NPO-13619-1	c 37	N78-16369 *
NASA-CASE-NPO-11479	c 15	N73-13462 *	NASA-CASE-NPO-13139-1	c 60	N76-21914 *	NASA-CASE-NPO-13620-1	c 27	N77-30236 *
NASA-CASE-NPO-11481	c 21	N73-13644 *	NASA-CASE-NPO-13140-1	c 32	N75-24982 *	NASA-CASE-NPO-13641-1	c 32	N79-24210 *
NASA-CASE-NPO-11493	c 14	N73-12447 *	NASA-CASE-NPO-13147-1	c 36	N77-25502 *	NASA-CASE-NPO-13643-1	c 52	N76-29896 *
NASA-CASE-NPO-11497	c 08	N73-25206 *	NASA-CASE-NPO-13157-1	c 37	N74-32918 *	NASA-CASE-NPO-13644-1	c 52	N76-29895 *
NASA-CASE-NPO-11510-1	c 33	N77-21315 *	NASA-CASE-NPO-13159-1	c 33	N74-17928 *	NASA-CASE-NPO-13650-1	c 25	N79-28253 *
NASA-CASE-NPO-11515-1	c 33	N77-13315 *	NASA-CASE-NPO-13160-1	c 35	N74-18090 *	NASA-CASE-NPO-13652-1	c 44	N79-17314 *
NASA-CASE-NPO-11548	c 07	N73-26118 *	NASA-CASE-NPO-13170-1	c 35	N76-14430 *	NASA-CASE-NPO-13652-2	c 44	N79-24431 *
NASA-CASE-NPO-11556	c 12	N72-25292 *	NASA-CASE-NPO-13171-1	c 32	N74-11000 *	NASA-CASE-NPO-13652-3	c 44	N80-14474 *
NASA-CASE-NPO-11559	c 28	N73-24784 *	NASA-CASE-NPO-13175-1	c 36	N75-31427 *	NASA-CASE-NPO-13663-1	c 35	N77-14406 *
NASA-CASE-NPO-11569	c 10	N73-26229 *	NASA-CASE-NPO-13201-1	c 37	N75-15050 *	NASA-CASE-NPO-13666-1	c 27	N77-13217 *
NASA-CASE-NPO-11572	c 07	N73-16121 *	NASA-CASE-NPO-13205-1	c 31	N74-32917 *	NASA-CASE-NPO-13671-1	c 37	N77-31497 *
NASA-CASE-NPO-11575-1	c 74	N81-19896 *	NASA-CASE-NPO-13214-1	c 35	N75-25123 *	NASA-CASE-NPO-13673-1	c 71	N77-26919 *
NASA-CASE-NPO-11593-1	c 07	N73-28012 *	NASA-CASE-NPO-13215-1	c 35	N75-25123 *	NASA-CASE-NPO-13675-1	c 44	N77-32580 *
NASA-CASE-NPO-11609-2	c 27	N77-31308 *	NASA-CASE-NPO-13217-1	c 32	N75-26194 *	NASA-CASE-NPO-13676-1	c 60	N79-20751 *
NASA-CASE-NPO-11623-1	c 71	N74-31148 *	NASA-CASE-NPO-13231-1	c 45	N75-27585 *	NASA-CASE-NPO-13683-1	c 35	N77-14411 *
NASA-CASE-NPO-11628-1	c 07	N73-30113 *	NASA-CASE-NPO-13237-1	c 44	N76-18641 *	NASA-CASE-NPO-13687-1	c 35	N78-18391 *
NASA-CASE-NPO-11630	c 08	N72-33172 *	NASA-CASE-NPO-13247-1	c 76	N79-16678 *	NASA-CASE-NPO-13689-2	c 44	N81-29525 *
NASA-CASE-NPO-11631	c 10	N73-12244 *	NASA-CASE-NPO-13253-1	c 37	N75-18573 *	NASA-CASE-NPO-13689-4	c 44	N82-28780 *
NASA-CASE-NPO-11659-1	c 35	N74-11283 *	NASA-CASE-NPO-13263-1	c 12	N75-24774 *	NASA-CASE-NPO-13690-1	c 27	N78-19302 *
NASA-CASE-NPO-11661	c 07	N73-14130 *	NASA-CASE-NPO-13274-1	c 25	N79-10163 *	NASA-CASE-NPO-13690-2	c 27	N79-14213 *
NASA-CASE-NPO-11682-1	c 35	N74-15127 *	NASA-CASE-NPO-13281-1	c 37	N75-13266 *	NASA-CASE-NPO-13691-1	c 43	N79-17288 *
NASA-CASE-NPO-11686	c 14	N73-25462 *	NASA-CASE-NPO-13282	c 38	N78-17396 *	NASA-CASE-NPO-13707-1	c 74	N77-28933 *
NASA-CASE-NPO-11703-1	c 10	N73-32144 *	NASA-CASE-NPO-13283	c 38	N78-17395 *	NASA-CASE-NPO-13722-1	c 74	N77-29913 *
NASA-CASE-NPO-11707	c 07	N73-25161 *	NASA-CASE-NPO-13292-1	c 32	N75-15854 *	NASA-CASE-NPO-13731-1	c 39	N78-10493 *
NASA-CASE-NPO-11738-1	c 09	N73-30185 *	NASA-CASE-NPO-13303-1	c 20	N75-24837 *	NASA-CASE-NPO-13732-1	c 44	N79-10513 *
NASA-CASE-NPO-11743-1	c 28	N74-27425 *	NASA-CASE-NPO-13308-1	c 36	N75-30524 *	NASA-CASE-NPO-13734-1	c 44	N78-10554 *
NASA-CASE-NPO-11749	c 14	N73-28486 *	NASA-CASE-NPO-13309-1	c 25	N81-19244 *	NASA-CASE-NPO-13736-1	c 44	N77-32583 *
NASA-CASE-NPO-11751	c 07	N73-24176 *	NASA-CASE-NPO-13313-1	c 54	N75-27761 *	NASA-CASE-NPO-13753-1	c 32	N77-20289 *
NASA-CASE-NPO-11758-1	c 31	N74-23065 *	NASA-CASE-NPO-13321-1	c 32	N75-26195 *	NASA-CASE-NPO-13758-2	c 31	N81-15154 *
NASA-CASE-NPO-11771	c 03	N73-20040 *	NASA-CASE-NPO-13327-1	c 35	N75-23910 *	NASA-CASE-NPO-13759-1	c 74	N78-17867 *
NASA-CASE-NPO-11775	c 26	N72-28761 *	NASA-CASE-NPO-13342-1	c 37	N76-16446 *	NASA-CASE-NPO-13763-1	c 44	N78-33526 *
NASA-CASE-NPO-11806-1	c 44	N74-19693 *	NASA-CASE-NPO-13342-2	c 44	N76-29700 *	NASA-CASE-NPO-13764-1	c 27	N78-17215 *
NASA-CASE-NPO-11820-1	c 32	N74-19788 *	NASA-CASE-NPO-13345-1	c 37	N75-19684 *	NASA-CASE-NPO-13772-1	c 35	N78-10429 *
NASA-CASE-NPO-11821-1	c 08	N73-26175 *	NASA-CASE-NPO-13346-1	c 36	N76-29575 *	NASA-CASE-NPO-13786-1	c 44	N80-29835 *
NASA-CASE-NPO-11850-1	c 32	N74-12912 *	NASA-CASE-NPO-13348-1	c 33	N75-31332 *	NASA-CASE-NPO-13792-1	c 35	N77-32455 *
NASA-CASE-NPO-11856-1	c 36	N74-15145 *	NASA-CASE-NPO-13360-1	c 37	N75-25185 *	NASA-CASE-NPO-13801-1	c 36	N78-18410 *
NASA-CASE-NPO-11861-1	c 36	N74-20009 *	NASA-CASE-NPO-13374-1	c 33	N75-19524 *	NASA-CASE-NPO-13802-1	c 71	N78-10837 *
NASA-CASE-NPO-11868	c 10	N73-20254 *	NASA-CASE-NPO-13385-1	c 33	N76-18345 *	NASA-CASE-NPO-13804-1	c 33	N80-23559 *
NASA-CASE-NPO-11880	c 28	N73-24783 *	NASA-CASE-NPO-13386-1	c 54	N75-27758 *	NASA-CASE-NPO-13808-1	c 35	N78-15461 *
NASA-CASE-NPO-11905-1	c 33	N74-12887 *	NASA-CASE-NPO-13388-1	c 35	N76-16390 *	NASA-CASE-NPO-13810-1	c 44	N77-32582 *
NASA-CASE-NPO-11919-1	c 35	N74-11284 *	NASA-CASE-NPO-13391-1	c 34	N76-27515 *	NASA-CASE-NPO-13812-1	c 33	N77-30365 *
NASA-CASE-NPO-11921-1	c 32	N74-30523 *	NASA-CASE-NPO-13396-1	c 35	N76-18401 *	NASA-CASE-NPO-13813-1	c 44	N78-31526 *
NASA-CASE-NPO-11932-1	c 35	N74-23040 *	NASA-CASE-NPO-13402-1	c 37	N76-18457 *	NASA-CASE-NPO-13817-1	c 44	N79-11471 *
NASA-CASE-NPO-11941-1	c 10	N73-27171 *	NASA-CASE-NPO-13422-1	c 60	N76-14818 *	NASA-CASE-NPO-13821-1	c 44	N78-28594 *
NASA-CASE-NPO-11942-1	c 33	N73-32818 *	NASA-CASE-NPO-13423-1	c 33	N75-31329 *	NASA-CASE-NPO-13823-1	c 37	N81-25371 *
NASA-CASE-NPO-11945-1	c 36	N76-18427 *	NASA-CASE-NPO-13426-1	c 33	N75-31330 *	NASA-CASE-NPO-13828-1	c 37	N79-11405 *
NASA-CASE-NPO-11948-1	c 33	N74-32712 *	NASA-CASE-NPO-13428-1	c 60	N77-12721 *	NASA-CASE-NPO-13830-1	c 32	N80-14281 *
NASA-CASE-NPO-11951-1	c 37	N74-21065 *	NASA-CASE-NPO-13435-1	c 31	N76-14284 *	NASA-CASE-NPO-13836-1	c 32	N78-15323 *
NASA-CASE-NPO-11954-1	c 35	N78-29421 *	NASA-CASE-NPO-13436-1	c 37	N76-20480 *	NASA-CASE-NPO-13839-1	c 31	N78-25256 *
NASA-CASE-NPO-11961-1	c 44	N76-18643 *	NASA-CASE-NPO-13443-1	c 76	N76-20994 *	NASA-CASE-NPO-13847-2	c 85	N79-17747 *
NASA-CASE-NPO-11962-1	c 33	N74-10194 *	NASA-CASE-NPO-13447-1	c 60	N77-12721 *	NASA-CASE-NPO-13848-2	c 85	N79-17747 *
NASA-CASE-NPO-11966-1	c 33	N74-17928 *	NASA-CASE-NPO-13449-1	c 36	N75-32441 *	NASA-CASE-NPO-13849-1	c 28	N80-10374 *
NASA-CASE-NPO-11975-1	c 28	N74-33209 *	NASA-CASE-NPO-13451-1	c 33	N76-14373 *	NASA-CASE-NPO-13858-1	c 28	N79-11231 *

NASA-CASE-NPO-13859-1	c 28	N79-11231 *	NASA-CASE-NPO-14324-1	c 72	N80-27163 *	NASA-CASE-NPO-15227-1	c 37	N81-33482 *
NASA-CASE-NPO-13862-1	c 35	N79-10391 *	NASA-CASE-NPO-14328-1	c 32	N80-18253 *	NASA-CASE-NPO-15251-1	c 31	N83-31897 *
NASA-CASE-NPO-13867-1	c 27	N78-14164 *	NASA-CASE-NPO-14329-1	c 52	N81-20703 *	NASA-CASE-NPO-15264-1	c 04	N84-27713 *
NASA-CASE-NPO-13872-1	c 33	N78-10377 *	NASA-CASE-NPO-14340-1	c 45	N80-14579 *	NASA-CASE-NPO-15269-1	c 44	N82-29710 *
NASA-CASE-NPO-13877-1	c 45	N82-11634 *	NASA-CASE-NPO-14350-1	c 33	N80-14332 *	NASA-CASE-NPO-15292-1	c 35	N83-27184 *
NASA-CASE-NPO-13886-1	c 32	N78-24391 *	NASA-CASE-NPO-14361-1	c 32	N82-23376 *	NASA-CASE-NPO-15295-1	c 60	N85-21992 *
NASA-CASE-NPO-13899-1	c 27	N80-32515 *	NASA-CASE-NPO-14362-1	c 32	N80-16261 *	NASA-CASE-NPO-15304-1	c 25	N83-31743 *
NASA-CASE-NPO-13904-1	c 25	N79-11152 *	NASA-CASE-NPO-14363-1	c 39	N81-25400 *	NASA-CASE-NPO-15334-1	c 71	N83-35781 *
NASA-CASE-NPO-13906-1	c 54	N79-24652 *	NASA-CASE-NPO-14369-1	c 44	N83-10501 *	NASA-CASE-NPO-15341-1	c 35	N84-33769 *
NASA-CASE-NPO-13907-1	c 28	N80-10374 *	NASA-CASE-NPO-14372-1	c 35	N80-26635 *	NASA-CASE-NPO-15342-1	c 60	N83-32342 *
NASA-CASE-NPO-13909-1	c 33	N78-25319 *	NASA-CASE-NPO-14382-1	c 31	N80-18231 *	NASA-CASE-NPO-15345-1	c 74	N84-23247 *
NASA-CASE-NPO-13910-1	c 52	N79-27836 *	NASA-CASE-NPO-14384-1	c 37	N80-10494 *	NASA-CASE-NPO-15351-1	c 06	N83-10040 *
NASA-CASE-NPO-13913-1	c 52	N79-12694 *	NASA-CASE-NPO-14387-1	c 43	N81-26509 *	NASA-CASE-NPO-15351-2	c 06	N84-34443 *
NASA-CASE-NPO-13914-1	c 44	N78-31526 *	NASA-CASE-NPO-14388-1	c 37	N81-17432 *	NASA-CASE-NPO-15358-1	c 33	N83-27126 *
NASA-CASE-NPO-13918-1	c 76	N79-11920 *	NASA-CASE-NPO-14395-1	c 37	N82-21587 *	NASA-CASE-NPO-15375-1	c 74	N84-11921 *
NASA-CASE-NPO-13921-1	c 44	N79-14526 *	NASA-CASE-NPO-14402-1	c 52	N81-27783 *	NASA-CASE-NPO-15388-1	c 44	N84-28203 *
NASA-CASE-NPO-13930-1	c 52	N79-14749 *	NASA-CASE-NPO-14406-1	c 37	N80-29703 *	NASA-CASE-NPO-15398-1	c 35	N84-22931 *
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NASA-CASE-NPO-13937-1	c 44	N78-31527 *	NASA-CASE-NPO-14424-1	c 33	N80-32650 *	NASA-CASE-NPO-15401-1	c 32	N83-27085 *
NASA-CASE-NPO-13941-1	c 32	N79-10262 *	NASA-CASE-NPO-14426-1	c 33	N81-27396 *	NASA-CASE-NPO-15419-2	c 44	N85-30474 *
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NASA-CASE-NPO-13945-1	c 36	N78-27402 *	NASA-CASE-NPO-14435-1	c 33	N81-33405 *	NASA-CASE-NPO-15426-1	c 35	N84-17555 *
NASA-CASE-NPO-13948-1	c 35	N78-25391 *	NASA-CASE-NPO-14444-1	c 33	N81-15192 *	NASA-CASE-NPO-15430-1	c 46	N84-21846 *
NASA-CASE-NPO-13953-1	c 35	N79-28527 *	NASA-CASE-NPO-14448-1	c 74	N81-29963 *	NASA-CASE-NPO-15432-1	c 32	N85-29117 *
NASA-CASE-NPO-13958-1	c 25	N79-11151 *	NASA-CASE-NPO-14467-1	c 44	N79-31753 *	NASA-CASE-NPO-15433-1	c 32	N85-21428 *
NASA-CASE-NPO-13969-1	c 76	N79-23798 *	NASA-CASE-NPO-14473-1	c 37	N80-23654 *	NASA-CASE-NPO-15435-1	c 71	N83-36846 *
NASA-CASE-NPO-13970-1	c 33	N81-20352 *	NASA-CASE-NPO-14474-1	c 26	N80-14229 *	NASA-CASE-NPO-15453-1	c 71	N83-32515 *
NASA-CASE-NPO-13982-1	c 32	N79-14267 *	NASA-CASE-NPO-14477-1	c 28	N80-28536 *	NASA-CASE-NPO-15458-1	c 25	N84-12262 *
NASA-CASE-NPO-13993-1	c 72	N79-13826 *	NASA-CASE-NPO-14480-1	c 32	N80-20448 *	NASA-CASE-NPO-15464-1	c 74	N85-29749 *
NASA-CASE-NPO-13999-1	c 35	N78-18395 *	NASA-CASE-NPO-14501-1	c 35	N80-18357 *	NASA-CASE-NPO-15465-1	c 34	N84-22903 *
NASA-CASE-NPO-14000-1	c 33	N79-24254 *	NASA-CASE-NPO-14502-1	c 74	N81-17888 *	NASA-CASE-NPO-15466-1	c 71	N85-22104 *
NASA-CASE-NPO-14001-1	c 27	N81-14076 *	NASA-CASE-NPO-14505-1	c 33	N81-19393 *	NASA-CASE-NPO-15482-1	c 37	N87-23970 *
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NASA-CASE-NPO-14021-2	c 27	N80-16163 *	NASA-CASE-NPO-14525-1	c 32	N79-19195 *	NASA-CASE-NPO-15519-1	c 32	N84-34651 *
NASA-CASE-NPO-14022-1	c 32	N78-31321 *	NASA-CASE-NPO-14525-2	c 32	N83-31918 *	NASA-CASE-NPO-15522-1	c 71	N83-32516 *
NASA-CASE-NPO-14035-1	c 32	N83-19968 *	NASA-CASE-NPO-14527-1	c 32	N80-24510 *	NASA-CASE-NPO-15530-1	c 76	N83-35888 *
NASA-CASE-NPO-14054-1	c 32	N82-12297 *	NASA-CASE-NPO-14536-1	c 32	N81-14185 *	NASA-CASE-NPO-15539-1	c 37	N82-11469 *
NASA-CASE-NPO-14056-1	c 33	N79-24257 *	NASA-CASE-NPO-14542-1	c 25	N82-23282 *	NASA-CASE-NPO-15547-1	c 72	N84-16959 *
NASA-CASE-NPO-14058-1	c 44	N79-18443 *	NASA-CASE-NPO-14544-1	c 46	N82-12685 *	NASA-CASE-NPO-15553-1	c 33	N85-29142 *
NASA-CASE-NPO-14066-1	c 74	N79-34011 *	NASA-CASE-NPO-14549-2	c 52	N82-33996 *	NASA-CASE-NPO-15558-1	c 35	N84-34705 *
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NASA-CASE-NPO-14103-1	c 28	N78-31255 *	NASA-CASE-NPO-14596-1	c 31	N81-33319 *	NASA-CASE-NPO-15629-1	c 76	N84-35113 *
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NASA-CASE-NPO-14110-1	c 28	N81-15119 *	NASA-CASE-NPO-14597-2	c 37	N84-28081 *	NASA-CASE-NPO-15644-1	c 35	N84-33767 *
NASA-CASE-NPO-14112-1	c 46	N79-22679 *	NASA-CASE-NPO-14617-1	c 33	N81-24338 *	NASA-CASE-NPO-15651-1	c 43	N85-21723 *
NASA-CASE-NPO-14124-1	c 46	N80-14603 *	NASA-CASE-NPO-14619-1	c 44	N81-17518 *	NASA-CASE-NPO-15656-1	c 43	N84-23012 *
NASA-CASE-NPO-14126-1	c 44	N79-11470 *	NASA-CASE-NPO-14632-1	c 32	N82-18443 *	NASA-CASE-NPO-15658-1	c 26	N86-32551 *
NASA-CASE-NPO-14130-1	c 34	N79-20335 *	NASA-CASE-NPO-14635-1	c 44	N80-24741 *	NASA-CASE-NPO-15662-1	c 44	N84-28204 *
NASA-CASE-NPO-14134-1	c 71	N79-23753 *	NASA-CASE-NPO-14640-1	c 32	N80-32605 *	NASA-CASE-NPO-15689-1	c 71	N84-23233 *
NASA-CASE-NPO-14140-1	c 43	N81-26509 *	NASA-CASE-NPO-14641-1	c 32	N81-29308 *	NASA-CASE-NPO-15696-1	c 33	N85-34333 *
NASA-CASE-NPO-14143-1	c 25	N81-14015 *	NASA-CASE-NPO-14657-1	c 74	N81-17888 *	NASA-CASE-NPO-15704-1	c 32	N85-34327 *
NASA-CASE-NPO-14152-1	c 32	N80-18252 *	NASA-CASE-NPO-14670-1	c 44	N81-19558 *	NASA-CASE-NPO-15706-1	c 35	N84-28017 *
NASA-CASE-NPO-14162-1	c 60	N81-15706 *	NASA-CASE-NPO-14749-1	c 32	N81-14186 *	NASA-CASE-NPO-15722-1	c 35	N85-29212 *
NASA-CASE-NPO-14163-1	c 33	N81-14220 *	NASA-CASE-NPO-14782-1	c 36	N82-28616 *	NASA-CASE-NPO-15743-1	c 32	N85-29118 *
NASA-CASE-NPO-14167-1	c 60	N81-15706 *	NASA-CASE-NPO-14813-1	c 74	N82-24072 *	NASA-CASE-NPO-15753-1	c 27	N84-33589 *
NASA-CASE-NPO-14169-1	c 60	N81-15706 *	NASA-CASE-NPO-14831-1	c 76	N82-30105 *	NASA-CASE-NPO-15759-1	c 35	N85-21596 *
NASA-CASE-NPO-14170-1	c 37	N81-15364 *	NASA-CASE-NPO-14839-1	c 35	N82-15381 *	NASA-CASE-NPO-15767-1	c 23	N84-16255 *
NASA-CASE-NPO-14173-1	c 04	N80-32359 *	NASA-CASE-NPO-14845-1	c 27	N82-28442 *	NASA-CASE-NPO-15772-1	c 76	N85-29800 *
NASA-CASE-NPO-14174-1	c 74	N79-20856 *	NASA-CASE-NPO-14857-1	c 27	N83-19900 *	NASA-CASE-NPO-15786-1	c 76	N84-35112 *
NASA-CASE-NPO-14191-1	c 31	N80-32584 *	NASA-CASE-NPO-14864-1	c 74	N83-19597 *	NASA-CASE-NPO-15789-1	c 31	N83-19947 *
NASA-CASE-NPO-14192-1	c 39	N80-10507 *	NASA-CASE-NPO-14902-1	c 25	N82-29371 *	NASA-CASE-NPO-15790-1	c 36	N85-21631 *
NASA-CASE-NPO-14199-1	c 44	N79-25482 *	NASA-CASE-NPO-14936-1	c 47	N83-32232 *	NASA-CASE-NPO-15800-2	c 76	N87-23286 *
NASA-CASE-NPO-14200-1	c 44	N79-25482 *	NASA-CASE-NPO-14940-1	c 33	N83-31954 *	NASA-CASE-NPO-15801-1	c 74	N85-23396 *
NASA-CASE-NPO-14205-1	c 44	N79-31752 *	NASA-CASE-NPO-14987-1	c 24	N83-33950 *	NASA-CASE-NPO-15805-1	c 74	N84-28590 *
NASA-CASE-NPO-14212-1	c 52	N80-27072 *	NASA-CASE-NPO-14998-1	c 32	N83-18975 *	NASA-CASE-NPO-15808-1	c 44	N84-34792 *
NASA-CASE-NPO-14219-1	c 74	N81-17886 *	NASA-CASE-NPO-15015-1	c 25	N82-28368 *	NASA-CASE-NPO-15811-1	c 76	N84-12968 *
NASA-CASE-NPO-14220-1	c 37	N81-14318 *	NASA-CASE-NPO-15021-1	c 36	N83-10417 *	NASA-CASE-NPO-15813-1	c 76	N85-30922 *
NASA-CASE-NPO-14221-1	c 37	N81-25370 *	NASA-CASE-NPO-15024-1	c 32	N84-27951 *	NASA-CASE-NPO-15813-2	c 76	N87-15882 *
NASA-CASE-NPO-14224-1	c 33	N80-18287 *	NASA-CASE-NPO-15036-1	c 74	N82-19029 *	NASA-CASE-NPO-15851-1	c 37	N85-21652 *
NASA-CASE-NPO-14229-1	c 33	N80-18285 *	NASA-CASE-NPO-15037-2	c 37	N85-29282 *	NASA-CASE-NPO-15865-1	c 74	N85-34629 *
NASA-CASE-NPO-14231-1	c 46	N80-10709 *	NASA-CASE-NPO-15066-1	c 33	N82-29538 *	NASA-CASE-NPO-15890-1-CU	c 33	N85-29143 *
NASA-CASE-NPO-14237-1	c 44	N80-20808 *	NASA-CASE-NPO-15070-1	c 31	N83-35176 *	NASA-CASE-NPO-15904-1	c 76	N86-28760 *
NASA-CASE-NPO-14253-1	c 32	N80-32605 *	NASA-CASE-NPO-15071-1	c 44	N82-16475 *	NASA-CASE-NPO-15920-1	c 33	N85-21493 *
NASA-CASE-NPO-14254-1	c 36	N80-18372 *	NASA-CASE-NPO-15100-1	c 44	N84-14583 *	NASA-CASE-NPO-15924-1	c 25	N85-35253 *
NASA-CASE-NPO-14255-1	c 46	N79-23555 *	NASA-CASE-NPO-15102-1	c 25	N81-25159 *	NASA-CASE-NPO-15928-1	c 26	N85-29005 *
NASA-CASE-NPO-14258-1	c 35	N81-33448 *	NASA-CASE-NPO-15111-1	c 36	N82-29589 *	NASA-CASE-NPO-15939-1	c 43	N86-19711 *
NASA-CASE-NPO-14260-1	c 28	N79-28342 *	NASA-CASE-NPO-15115-1	c 37	N82-24493 *	NASA-CASE-NPO-15949-1	c 85	N85-34722 *
NASA-CASE-NPO-14272-1	c 25	N81-33246 *	NASA-CASE-NPO-15155-1	c 74	N85-22139 *	NASA-CASE-NPO-15960-1	c 37	N86-19604 *
NASA-CASE-NPO-14273-1	c 25	N82-11144 *	NASA-CASE-NPO-15161-1	c 33	N84-16456 *	NASA-CASE-NPO-15980-1	c 36	N85-30305 *
NASA-CASE-NPO-14295-1	c 76	N80-32245 *	NASA-CASE-NPO-15179-1	c 44	N82-26777 *	NASA-CASE-NPO-15982-1	c 60	N87-21591 *
NASA-CASE-NPO-14297-1	c 33	N81-19389 *	NASA-CASE-NPO-15183-1	c 44	N82-26776 *	NASA-CASE-NPO-16000-1	c 36	N85-29264 *
NASA-CASE-NPO-14298-1	c 76	N80-32244 *	NASA-CASE-NPO-15197-1	c 52	N83-25346 *	NASA-CASE-NPO-16021-1	c 33	N85-30187 *
NASA-CASE-NPO-14303-1	c 44	N80-18550 *	NASA-CASE-NPO-15201-1	c 36	N83-35350 *	NASA-CASE-NPO-16022-1	c 71	N85-22105 *
NASA-CASE-NPO-14305-1	c 44	N80-18550 *	NASA-CASE-NPO-15202-1	c 27	N83-34043 *	NASA-CASE-NPO-16027-1	c 35	N85-21597 *
NASA-CASE-NPO-14311-1	c 33	N82-29539 *	NASA-CASE-NPO-15210-1	c 25	N84-22709 *	NASA-CASE-NPO-16030-1	c 36	N84-25037 *
NASA-CASE-NPO-14315-1	c 27	N81-17261 *	NASA-CASE-NPO-15213-1	c 51	N83-17045 *	NASA-CASE-NPO-16038-1	c 37	N86-19605 *
NASA-CASE-NPO-14316-1	c 33	N81-33404 *	NASA-CASE-NPO-15220-1	c 45	N83-25217 *	NASA-CASE-NPO-16045-1	c 76	N87-13313 *

NASA-CASE-NPO-16061-1-CU	c 72	N87-21660 *	NASA-CASE-NPO-17393-1-CU	c 33	N89-29679 *	NASA-CASE-XAC-06956	c 15	N71-21177 *
NASA-CASE-NPO-16103-1	c 27	N85-29043 *	NASA-CASE-NPO-17399-1-CU	c 76	N89-14120 *	NASA-CASE-XAC-07043	c 05	N71-23161 *
NASA-CASE-NPO-16112-1	c 33	N86-19516 *	NASA-CASE-NPO-17426-1-CU	c 33	N90-10329 *	NASA-CASE-XAC-08494	c 30	N71-15990 *
NASA-CASE-NPO-16116-2	c 60	N88-29310 *	NASA-CASE-NPO-17436-1-CU	c 35	N89-13764 *	NASA-CASE-XAC-08972	c 02	N71-20570 *
NASA-CASE-NPO-16135-1	c 25	N83-24572 *	NASA-CASE-NPO-17439-1-CU	c 52	N90-16391 *	NASA-CASE-XAC-08981	c 09	N69-39897 *
NASA-CASE-NPO-16142-1-CU	c 35	N86-20752 *	NASA-CASE-NPO-17453-1-CU	c 37	N89-13787 *	NASA-CASE-XAC-09489-1	c 15	N71-26673 *
NASA-CASE-NPO-16147-1-CU	c 71	N85-29693 *	NASA-CASE-NPO-17524-1-CU	c 27	N90-10261 *	NASA-CASE-XAC-10019	c 15	N71-23809 *
NASA-CASE-NPO-16155-1	c 44	N85-30475 *	NASA-CASE-NPO-17525-1-CU	c 60	N89-29955 *	NASA-CASE-XAC-10607	c 10	N71-23669 *
NASA-CASE-NPO-16171-1CU	c 04	N86-27270 *	NASA-CASE-NPO-17526-1-CU	c 35	N89-28796 *	NASA-CASE-XAC-10608-1	c 09	N71-12517 *
NASA-CASE-NPO-16203-1	c 23	N85-35227 *	NASA-CASE-NPO-17534-1-CU	c 76	N89-30076 *	NASA-CASE-XAC-10768	c 09	N71-18830 *
NASA-CASE-NPO-16233-1	c 37	N86-20801 *	NASA-CASE-NPO-17548-1-CU	c 32	N90-16104 *	NASA-CASE-XAC-10770-1	c 16	N71-24828 *
NASA-CASE-NPO-16236-1	c 44	N86-27706 *	NASA-CASE-NPO-17562-1-CU	c 74	N89-24153 *	NASA-CASE-XAC-11225	c 14	N69-27486 *
NASA-CASE-NPO-16236-1	c 44	N86-27706 *	NASA-CASE-NPO-17564-1-CU	c 32	N90-16974 *			
NASA-CASE-NPO-16256-1	c 32	N87-21207 *	NASA-CASE-NPO-17596-1-CU	c 35	N89-28795 *	NASA-CASE-XAR-01547	c 05	N69-21473 *
NASA-CASE-NPO-16257-1	c 31	N85-29082 *	NASA-CASE-NPO-17604-1-CU	c 33	N90-16124 *	NASA-CASE-XAR-03786	c 09	N69-21313 *
NASA-CASE-NPO-16271-1	c 35	N86-25753 *	NASA-CASE-NPO-17621-1-CU	c 33	N90-17010 *			
NASA-CASE-NPO-16299-1	c 33	N87-14594 *	NASA-CASE-NPO-17628-1-CU	c 32	N89-28684 *	NASA-CASE-XER-07894	c 09	N71-18721 *
NASA-CASE-NPO-16306-1-CU	c 76	N85-30934 *	NASA-CASE-NPO-17630-1-CU	c 31	N89-29577 *	NASA-CASE-XER-07895	c 26	N72-25679 *
NASA-CASE-NPO-16321-1CU	c 37	N87-17034 *	NASA-CASE-NPO-17633-1-CU	c 27	N90-15263 *	NASA-CASE-XER-07896-2	c 23	N72-22673 *
NASA-CASE-NPO-16337-1-CU	c 33	N87-22894 *	NASA-CASE-NPO-17640-1-CU	c 33	N90-17011 *	NASA-CASE-XER-08476-1	c 26	N72-17820 *
NASA-CASE-NPO-16372-1	c 72	N86-33127 *	NASA-CASE-NPO-17703-1-CU	c 74	N89-29191 *	NASA-CASE-XER-09213	c 07	N71-12390 *
NASA-CASE-NPO-16392-1	c 25	N86-25428 *	NASA-CASE-NPO-17716-1-CU	c 62	N90-10608 *	NASA-CASE-XER-09519	c 14	N71-18483 *
NASA-CASE-NPO-16393-1-CU	c 31	N87-21159 *	NASA-CASE-NPO-17736-1-CU	c 76	N90-17455 *	NASA-CASE-XER-09521	c 09	N72-12136 *
NASA-CASE-NPO-16402-2	c 33	N88-24862 *	NASA-CASE-NPO-17785-1-CU	c 37	N89-28846 *	NASA-CASE-XER-11019	c 09	N71-23598 *
NASA-CASE-NPO-16414-1-CU	c 32	N87-25511 *	NASA-CASE-NPO-17786-1-CU	c 35	N90-17104 *	NASA-CASE-XER-11046-2	c 33	N74-22864 *
NASA-CASE-NPO-16420-1	c 33	N86-20681 *	NASA-CASE-NPO-17812-1-CU	c 76	N90-17456 *	NASA-CASE-XER-11046	c 09	N72-22203 *
NASA-CASE-NPO-16423-1-CU	c 37	N87-21334 *	NASA-CASE-NPO-17820-1-CU	c 04	N90-18379 *	NASA-CASE-XER-11203	c 14	N71-28994 *
NASA-CASE-NPO-16433-1	c 36	N87-23961 *	NASA-CASE-NPO-17824-1-CU	c 36	N90-17132 *			
NASA-CASE-NPO-16461-1CU	c 60	N89-26400 *	NASA-CASE-NPO-17853-1-CU	c 32	N90-16975 *	NASA-CASE-XFR-00181	c 21	N70-33279 *
NASA-CASE-NPO-16462-1-CU	c 60	N88-24169 *				NASA-CASE-XFR-00756	c 02	N71-13421 *
NASA-CASE-NPO-16464-1CU	c 60	N86-24224 *	NASA-CASE-NST-00007-1	c 45	N89-28967 *	NASA-CASE-XFR-00811	c 15	N70-36901 *
NASA-CASE-NPO-16467-1-CU	c 33	N87-23879 *				NASA-CASE-XFR-00929	c 31	N70-34966 *
NASA-CASE-NPO-16479-1CU	c 35	N86-32695 *	NASA-CASE-NSTL-10	c 45	N84-12654 *	NASA-CASE-XFR-02007	c 12	N71-24692 *
NASA-CASE-NPO-16494-1-CU	c 34	N85-29182 *				NASA-CASE-XFR-03107	c 09	N71-19449 *
NASA-CASE-NPO-16497-1-CU	c 36	N87-25567 *	NASA-CASE-NUC-10107-1	c 33	N74-17930 *	NASA-CASE-XFR-03802	c 33	N71-23085 *
NASA-CASE-NPO-16526-1CU	c 44	N87-17399 *				NASA-CASE-XFR-04104	c 03	N70-42073 *
NASA-CASE-NPO-16542-1-CU	c 36	N87-23960 *	NASA-CASE-SSC-00004	c 37	N90-15443 *	NASA-CASE-XFR-04147	c 11	N71-10748 *
NASA-CASE-NPO-16544-1-CU	c 35	N87-22953 *				NASA-CASE-XFR-05302	c 15	N71-23254 *
NASA-CASE-NPO-16558-1-CU	c 74	N87-23259 *	NASA-CASE-WLP-10002	c 15	N72-17451 *	NASA-CASE-XFR-05421	c 15	N71-22994 *
NASA-CASE-NPO-16567-1-CU	c 36	N87-28006 *	NASA-CASE-WLP-10557-1	c 35	N84-28015 *	NASA-CASE-XFR-05637	c 09	N71-19480 *
NASA-CASE-NPO-16584-1-CU	c 76	N86-25269 *	NASA-CASE-WLP-10055-2	c 35	N85-21598 *	NASA-CASE-XFR-07172	c 05	N71-27234 *
NASA-CASE-NPO-16607-1-CU	c 76	N88-14836 *				NASA-CASE-XFR-07658-1	c 05	N71-26293 *
NASA-CASE-NPO-16617-2-CU	c 35	N90-17118 *	NASA-CASE-WOO-00428-1	c 32	N79-19186 *	NASA-CASE-XFR-08403	c 05	N71-11202 *
NASA-CASE-NPO-16632-1-CU	c 32	N87-15390 *	NASA-CASE-WOO-00625	c 37	N78-17385 *	NASA-CASE-XFR-09479	c 14	N69-27503 *
NASA-CASE-NPO-16640-1-CU	c 72	N87-21661 *				NASA-CASE-XFR-10856	c 05	N71-11189 *
NASA-CASE-NPO-16675-1-CU	c 71	N88-24241 *	NASA-CASE-XAC-00001	c 15	N71-28952 *	NASA-CASE-XGS-00131	c 09	N70-38995 *
NASA-CASE-NPO-16681-1-CU	c 76	N88-24543 *	NASA-CASE-XAC-00030	c 14	N70-34820 *	NASA-CASE-XGS-00174	c 08	N70-34743 *
NASA-CASE-NPO-16734-1-CU	c 31	N88-14223 *	NASA-CASE-XAC-00042	c 14	N70-34816 *	NASA-CASE-XGS-00260	c 31	N70-37924 *
NASA-CASE-NPO-16750-1-CU	c 74	N89-14078 *	NASA-CASE-XAC-00048	c 02	N71-29128 *	NASA-CASE-XGS-00359	c 14	N70-34158 *
NASA-CASE-NPO-16764-1-CU	c 33	N88-14270 *	NASA-CASE-XAC-00060	c 09	N70-39915 *	NASA-CASE-XGS-00373	c 23	N71-15978 *
NASA-CASE-NPO-16766-1-CU	c 37	N89-13785 *	NASA-CASE-XAC-00073	c 14	N70-34813 *	NASA-CASE-XGS-00381	c 09	N70-34819 *
NASA-CASE-NPO-16784-1	c 33	N87-10231 *	NASA-CASE-XAC-00074	c 15	N70-34817 *	NASA-CASE-XGS-00458	c 09	N70-38604 *
NASA-CASE-NPO-16789-1-CU	c 72	N89-29169 *	NASA-CASE-XAC-00086	c 09	N70-33182 *	NASA-CASE-XGS-00466	c 21	N70-34297 *
NASA-CASE-NPO-16808-1-CU	c 76	N87-25868 *	NASA-CASE-XAC-00139	c 02	N70-34856 *	NASA-CASE-XGS-00473	c 03	N70-38713 *
NASA-CASE-NPO-16869-1CU	c 74	N86-33138 *	NASA-CASE-XAC-00319	c 25	N70-41628 *	NASA-CASE-XGS-00587	c 15	N70-35087 *
NASA-CASE-NPO-16882-1-CU	c 33	N88-24863 *	NASA-CASE-XAC-00399	c 11	N70-34815 *	NASA-CASE-XGS-00619	c 30	N70-40016 *
NASA-CASE-NPO-16888-1-CU	c 33	N89-29681 *	NASA-CASE-XAC-00404	c 08	N70-40125 *	NASA-CASE-XGS-00689	c 08	N70-34787 *
NASA-CASE-NPO-16892-1-CU	c 37	N87-14704 *	NASA-CASE-XAC-00405	c 05	N70-41819 *	NASA-CASE-XGS-00740	c 07	N71-23098 *
NASA-CASE-NPO-16896-1-CU	c 71	N89-13236 *	NASA-CASE-XAC-00435	c 09	N70-35440 *	NASA-CASE-XGS-00769	c 14	N70-41647 *
NASA-CASE-NPO-16901-1-CU	c 31	N90-19425 *	NASA-CASE-XAC-00472	c 15	N70-40180 *	NASA-CASE-XGS-00783	c 30	N71-17788 *
NASA-CASE-NPO-16907-1-CU	c 25	N88-24732 *	NASA-CASE-XAC-00648	c 14	N70-40400 *	NASA-CASE-XGS-00809	c 21	N70-35427 *
NASA-CASE-NPO-16932-1CU	c 33	N87-15413 *	NASA-CASE-XAC-00731	c 11	N71-15960 *	NASA-CASE-XGS-00823	c 10	N71-15910 *
NASA-CASE-NPO-16949-1-CU	c 62	N90-19776 *	NASA-CASE-XAC-00812	c 14	N71-15598 *	NASA-CASE-XGS-00824	c 15	N71-16078 *
NASA-CASE-NPO-16985-1-CU	c 31	N88-24814 *	NASA-CASE-XAC-00942	c 10	N71-16042 *	NASA-CASE-XGS-00829-1	c 44	N79-19447 *
NASA-CASE-NPO-16987-1-CU	c 32	N88-30001 *	NASA-CASE-XAC-01101	c 14	N70-41957 *	NASA-CASE-XGS-00886	c 03	N71-11053 *
NASA-CASE-NPO-16989-1-CU	c 35	N89-28794 *	NASA-CASE-XAC-01158	c 15	N71-23051 *	NASA-CASE-XGS-00938	c 32	N70-41367 *
NASA-CASE-NPO-16995-1-CU	c 71	N90-12289 *	NASA-CASE-XAC-01404	c 05	N70-41581 *	NASA-CASE-XGS-00963	c 15	N69-39735 *
NASA-CASE-NPO-17022-1-CU	c 29	N87-25489 *	NASA-CASE-XAC-01591	c 31	N71-17729 *	NASA-CASE-XGS-01013	c 14	N71-23725 *
NASA-CASE-NPO-17024-1-CU	c 35	N88-24943 *	NASA-CASE-XAC-01662	c 14	N71-23037 *	NASA-CASE-XGS-01021	c 08	N71-21042 *
NASA-CASE-NPO-17058-1-CU	c 62	N87-25803 *	NASA-CASE-XAC-01677	c 09	N71-20816 *	NASA-CASE-XGS-01022	c 07	N71-16088 *
NASA-CASE-NPO-17068-1-CU	c 35	N88-29151 *	NASA-CASE-XAC-02058	c 02	N71-16087 *	NASA-CASE-XGS-01023	c 14	N71-22992 *
NASA-CASE-NPO-17085-1-CU	c 31	N89-12785 *	NASA-CASE-XAC-02405	c 09	N71-16089 *	NASA-CASE-XGS-01036	c 14	N70-40003 *
NASA-CASE-NPO-17086-1-CU	c 35	N89-14422 *	NASA-CASE-XAC-02407	c 14	N69-27423 *	NASA-CASE-XGS-01052	c 14	N71-15992 *
NASA-CASE-NPO-17108-1-CU	c 33	N89-28713 *	NASA-CASE-XAC-02807	c 09	N71-23021 *	NASA-CASE-XGS-01110	c 07	N69-24334 *
NASA-CASE-NPO-17134-1-CU	c 33	N88-24864 *	NASA-CASE-XAC-02877	c 14	N70-41681 *	NASA-CASE-XGS-01118	c 10	N71-23662 *
NASA-CASE-NPO-17139-1-CU	c 74	N88-25301 *	NASA-CASE-XAC-02970	c 14	N69-39896 *	NASA-CASE-XGS-01143	c 31	N71-15647 *
NASA-CASE-NPO-17140-1-CU	c 74	N89-14077 *	NASA-CASE-XAC-02981	c 14	N71-21072 *	NASA-CASE-XGS-01155	c 10	N71-21483 *
NASA-CASE-NPO-17143-1-CU	c 31	N89-14351 *	NASA-CASE-XAC-03107	c 23	N71-16098 *	NASA-CASE-XGS-01159	c 21	N71-10678 *
NASA-CASE-NPO-17144-1-CU	c 74	N88-25305 *	NASA-CASE-XAC-03392	c 03	N70-41954 *	NASA-CASE-XGS-01222	c 10	N71-20841 *
NASA-CASE-NPO-17157-1-CU	c 33	N88-26596 *	NASA-CASE-XAC-03740	c 14	N71-26135 *	NASA-CASE-XGS-01223	c 07	N71-10609 *
NASA-CASE-NPO-17184-1-CU	c 32	N88-26541 *	NASA-CASE-XAC-03777	c 10	N71-15909 *	NASA-CASE-XGS-01230	c 08	N71-19544 *
NASA-CASE-NPO-17196-1-CU	c 32	N88-29076 *	NASA-CASE-XAC-04030	c 10	N71-19472 *	NASA-CASE-XGS-01231	c 14	N70-41676 *
NASA-CASE-NPO-17197-1-CU	c 62	N89-29976 *	NASA-CASE-XAC-04031	c 08	N71-18594 *	NASA-CASE-XGS-01245-1	c 35	N79-33449 *
NASA-CASE-NPO-17203-1-CU	c 34	N89-13728 *	NASA-CASE-XAC-04458	c 14	N71-24232 *	NASA-CASE-XGS-01286-1	c 37	N79-33469 *
NASA-CASE-NPO-17207-1-CU	c 74	N88-25304 *	NASA-CASE-XAC-04885	c 14	N71-23790 *	NASA-CASE-XGS-01293-1	c 35	N79-33450 *
NASA-CASE-NPO-17233-1-CU	c 33	N88-29095 *	NASA-CASE-XAC-04886-1	c 14	N71-20439 *	NASA-CASE-XGS-01331	c 14	N71-22996 *
NASA-CASE-NPO-17249-1-CU	c 32	N89-28676 *	NASA-CASE-XAC-05333	c 11	N71-22875 *	NASA-CASE-XGS-01395	c 03	N69-21539 *
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NASA-CASE-XMF-00640	c 15	N70-39924 *	NASA-CASE-XMF-05114	c 15	N71-17650 *	NASA-CASE-XMS-02744	c 33	N75-27249 *
NASA-CASE-XMF-00641	c 31	N70-36410 *	NASA-CASE-XMF-05195	c 10	N71-24861 *	NASA-CASE-XMS-02872	c 05	N69-21925 *
NASA-CASE-XMF-00658	c 12	N70-38997 *	NASA-CASE-XMF-05224	c 14	N71-23726 *	NASA-CASE-XMS-02930	c 11	N71-23042 *
NASA-CASE-XMF-00663	c 08	N71-18752 *	NASA-CASE-XMF-05279	c 18	N71-16124 *	NASA-CASE-XMS-02952	c 18	N71-20742 *
NASA-CASE-XMF-00684	c 21	N71-21688 *	NASA-CASE-XMF-05344	c 31	N71-16345 *	NASA-CASE-XMS-02977	c 11	N71-10746 *
NASA-CASE-XMF-00701	c 09	N70-40272 *	NASA-CASE-XMF-05373-1	c 33	N79-21264 *	NASA-CASE-XMS-03252	c 15	N71-10658 *
NASA-CASE-XMF-00722	c 15	N70-40204 *	NASA-CASE-XMF-05757-1	c 31	N79-21227 *	NASA-CASE-XMS-03371	c 05	N70-42000 *
NASA-CASE-XMF-00906	c 09	N70-41655 *	NASA-CASE-XMF-05835	c 08	N71-12504 *	NASA-CASE-XMS-03454	c 09	N71-20658 *
NASA-CASE-XMF-00908	c 14	N70-40238 *	NASA-CASE-XMF-05843	c 03	N71-11055 *	NASA-CASE-XMS-03537	c 15	N69-21471 *
NASA-CASE-XMF-00923	c 28	N70-36802 *	NASA-CASE-XMF-05844	c 14	N71-17587 *	NASA-CASE-XMS-03542	c 09	N71-28926 *
NASA-CASE-XMF-00968	c 28	N71-15660 *	NASA-CASE-XMF-05868	c 26	N75-27125 *	NASA-CASE-XMS-03613	c 31	N71-16346 *
NASA-CASE-XMF-01016	c 26	N71-17818 *	NASA-CASE-XMF-05882	c 35	N75-27329 *	NASA-CASE-XMS-03694-1	c 54	N82-29002 *
NASA-CASE-XMF-01030	c 18	N70-41583 *	NASA-CASE-XMF-05941	c 31	N71-23912 *	NASA-CASE-XMS-03700	c 15	N69-24266 *
NASA-CASE-XMF-01045	c 15	N70-40354 *	NASA-CASE-XMF-05964-1	c 20	N79-21124 *	NASA-CASE-XMS-03722	c 15	N71-21530 *
NASA-CASE-XMF-01049	c 15	N71-23049 *	NASA-CASE-XMF-05999	c 15	N71-29032 *	NASA-CASE-XMS-03745	c 15	N71-21076 *
NASA-CASE-XMF-01083	c 15	N71-22723 *	NASA-CASE-XMF-06053	c 26	N75-27126 *	NASA-CASE-XMS-03792	c 14	N70-41812 *
NASA-CASE-XMF-01096	c 10	N71-16030 *	NASA-CASE-XMF-06065	c 15	N71-20395 *	NASA-CASE-XMS-04061-1	c 09	N69-39885 *
NASA-CASE-XMF-01097	c 10	N71-16058 *	NASA-CASE-XMF-06092	c 07	N71-24612 *	NASA-CASE-XMS-04072	c 15	N70-42017 *
NASA-CASE-XMF-01099	c 14	N71-15969 *	NASA-CASE-XMF-06409	c 06	N71-23230 *	NASA-CASE-XMS-04142	c 31	N70-41631 *
NASA-CASE-XMF-01129	c 09	N70-38712 *	NASA-CASE-XMF-06515	c 14	N71-23227 *	NASA-CASE-XMS-04170	c 05	N71-22748 *
NASA-CASE-XMF-01160	c 07	N71-11298 *	NASA-CASE-XMF-06519	c 09	N71-12519 *	NASA-CASE-XMS-04178	c 15	N71-22798 *
NASA-CASE-XMF-01174	c 02	N70-41589 *	NASA-CASE-XMF-06531	c 14	N71-17575 *	NASA-CASE-XMS-04201	c 14	N71-22990 *
NASA-CASE-XMF-01371	c 15	N70-41829 *	NASA-CASE-XMF-06589	c 05	N71-23159 *	NASA-CASE-XMS-04212-1	c 05	N71-12346 *
NASA-CASE-XMF-01402	c 18	N71-21651 *	NASA-CASE-XMF-06617	c 09	N71-24843 *	NASA-CASE-XMS-04213-1	c 09	N71-26002 *
NASA-CASE-XMF-01452	c 15	N70-41371 *	NASA-CASE-XMF-06684-1	c 20	N79-21123 *	NASA-CASE-XMS-04215-1	c 09	N69-39987 *
NASA-CASE-XMF-01483	c 14	N69-27431 *	NASA-CASE-XMF-06888	c 15	N71-24044 *	NASA-CASE-XMS-04268	c 33	N71-16277 *
NASA-CASE-XMF-01543	c 31	N71-17730 *	NASA-CASE-XMF-06892	c 09	N71-24805 *	NASA-CASE-XMS-04269	c 16	N71-22895 *
NASA-CASE-XMF-01544	c 28	N70-34162 *	NASA-CASE-XMF-06900-1	c 27	N79-21191 *	NASA-CASE-XMS-04292	c 15	N71-22722 *
NASA-CASE-XMF-01598	c 21	N71-15583 *	NASA-CASE-XMF-06926	c 28	N71-22983 *	NASA-CASE-XMS-04300	c 09	N71-19479 *
NASA-CASE-XMF-01599	c 09	N71-20705 *	NASA-CASE-XMF-07069	c 15	N71-23815 *	NASA-CASE-XMS-04312	c 07	N71-22984 *
NASA-CASE-XMF-01667	c 15	N71-17647 *	NASA-CASE-XMF-07488	c 11	N71-18773 *	NASA-CASE-XMS-04318	c 15	N69-27871 *
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NASA-CASE-XMF-01730	c 15	N71-23050 *	NASA-CASE-XMF-07770-2	c 18	N71-26772 *	NASA-CASE-XMS-04533	c 15	N71-23086 *
NASA-CASE-XMF-01772	c 11	N70-41677 *	NASA-CASE-XMF-07808	c 15	N71-23812 *	NASA-CASE-XMS-04545	c 15	N71-22878 *
NASA-CASE-XMF-01779	c 12	N71-20815 *	NASA-CASE-XMF-08217	c 03	N71-23239 *	NASA-CASE-XMS-04625	c 05	N71-20718 *
NASA-CASE-XMF-01813	c 28	N70-41582 *	NASA-CASE-XMF-08522	c 15	N71-19486 *	NASA-CASE-XMS-04670	c 54	N78-17678 *
NASA-CASE-XMF-01887	c 15	N71-10617 *	NASA-CASE-XMF-08523	c 31	N71-20396 *	NASA-CASE-XMS-04798	c 11	N71-21474 *
NASA-CASE-XMF-01892	c 10	N71-22986 *	NASA-CASE-XMF-08651	c 06	N71-11236 *	NASA-CASE-XMS-04826	c 28	N71-28849 *
NASA-CASE-XMF-01899	c 31	N70-41948 *	NASA-CASE-XMF-08652	c 06	N71-11243 *	NASA-CASE-XMS-04843	c 03	N69-21469 *
NASA-CASE-XMF-01973	c 31	N70-41588 *	NASA-CASE-XMF-08655	c 06	N71-11239 *	NASA-CASE-XMS-04890-1	c 15	N70-22192 *
NASA-CASE-XMF-01974	c 14	N71-22752 *	NASA-CASE-XMF-08656	c 06	N71-11242 *	NASA-CASE-XMS-04917	c 14	N69-24257 *
NASA-CASE-XMF-02039	c 15	N71-15871 *	NASA-CASE-XMF-08665	c 10	N71-19467 *	NASA-CASE-XMS-04919	c 09	N71-23270 *
NASA-CASE-XMF-02107	c 15	N71-10809 *	NASA-CASE-XMF-08674	c 06	N71-28807 *	NASA-CASE-XMS-04928	c 54	N78-17679 *
NASA-CASE-XMF-02108	c 31	N70-36845 *	NASA-CASE-XMF-08804	c 09	N71-24717 *	NASA-CASE-XMS-04935	c 05	N71-11190 *
NASA-CASE-XMF-02221	c 18	N71-27170 *	NASA-CASE-XMF-09422	c 07	N71-19436 *	NASA-CASE-XMS-05303	c 07	N69-27462 *
NASA-CASE-XMF-02263	c 05	N74-10907 *	NASA-CASE-XMF-09902	c 15	N72-11387 *	NASA-CASE-XMS-05304	c 05	N71-12336 *
NASA-CASE-XMF-02303	c 17	N71-23828 *	NASA-CASE-XMF-10040	c 15	N71-22877 *	NASA-CASE-XMS-05307	c 09	N69-24330 *
NASA-CASE-XMF-02307	c 14	N71-10779 *	NASA-CASE-XMF-10289	c 14	N71-23699 *	NASA-CASE-XMS-05365	c 14	N71-22993 *
NASA-CASE-XMF-02330	c 15	N71-23798 *	NASA-CASE-XMF-10753	c 06	N71-11237 *	NASA-CASE-XMS-05454-1	c 07	N71-12391 *

NASA-CASE-XMS-05516	c 15	N71-17803 *	NASA-CASE-XNP-01058	c 09	N71-12540 *	NASA-CASE-XNP-03972	c 15	N71-23048 *
NASA-CASE-XMS-05562-1	c 09	N69-39986 *	NASA-CASE-XNP-01059	c 23	N71-21821 *	NASA-CASE-XNP-04023	c 06	N71-28808 *
NASA-CASE-XMS-05605-1	c 10	N71-19468 *	NASA-CASE-XNP-01068	c 10	N71-28739 *	NASA-CASE-XNP-04067	c 08	N71-22707 *
NASA-CASE-XMS-05731	c 35	N75-29382 *	NASA-CASE-XNP-01104	c 28	N70-39931 *	NASA-CASE-XNP-04111	c 14	N71-15622 *
NASA-CASE-XMS-05890	c 09	N71-23191 *	NASA-CASE-XNP-01107	c 10	N71-28859 *	NASA-CASE-XNP-04124	c 28	N71-21822 *
NASA-CASE-XMS-05894-1	c 15	N69-21924 *	NASA-CASE-XNP-01152	c 15	N70-41811 *	NASA-CASE-XNP-04148	c 17	N71-24830 *
NASA-CASE-XMS-05909-1	c 14	N69-27459 *	NASA-CASE-XNP-01153	c 32	N71-17645 *	NASA-CASE-XNP-04161	c 14	N71-15599 *
NASA-CASE-XMS-05936	c 14	N70-41682 *	NASA-CASE-XNP-01185	c 26	N73-28710 *	NASA-CASE-XNP-04162-1	c 08	N70-34675 *
NASA-CASE-XMS-06056-1	c 23	N71-24857 *	NASA-CASE-XNP-01187	c 15	N73-28516 *	NASA-CASE-XNP-04167-2	c 25	N72-24753 *
NASA-CASE-XMS-06061	c 05	N71-23317 *	NASA-CASE-XNP-01188	c 15	N73-32361 *	NASA-CASE-XNP-04167-3	c 36	N77-19416 *
NASA-CASE-XMS-06064	c 05	N71-23096 *	NASA-CASE-XNP-01193	c 10	N71-16057 *	NASA-CASE-XNP-04180	c 07	N69-39736 *
NASA-CASE-XMS-06162	c 31	N71-28851 *	NASA-CASE-XNP-01263-2	c 15	N71-26312 *	NASA-CASE-XNP-04183	c 09	N69-24329 *
NASA-CASE-XMS-06236	c 14	N71-21007 *	NASA-CASE-XNP-01296	c 33	N75-27250 *	NASA-CASE-XNP-04231	c 14	N73-32325 *
NASA-CASE-XMS-06329-1	c 15	N71-20441 *	NASA-CASE-XNP-01306-2	c 09	N71-24596 *	NASA-CASE-XNP-04262-2	c 17	N71-26773 *
NASA-CASE-XMS-06497	c 14	N71-26244 *	NASA-CASE-XNP-01306	c 07	N71-20814 *	NASA-CASE-XNP-04264	c 03	N69-21337 *
NASA-CASE-XMS-06740-1	c 07	N71-26579 *	NASA-CASE-XNP-01307	c 21	N70-41856 *	NASA-CASE-XNP-04338	c 17	N71-23046 *
NASA-CASE-XMS-06761	c 05	N69-23192 *	NASA-CASE-XNP-01310	c 33	N71-28852 *	NASA-CASE-XNP-04339	c 17	N71-29137 *
NASA-CASE-XMS-06767-1	c 14	N71-20435 *	NASA-CASE-XNP-01311	c 26	N75-29236 *	NASA-CASE-XNP-04389	c 28	N71-20942 *
NASA-CASE-XMS-06782	c 32	N71-15974 *	NASA-CASE-XNP-01318	c 10	N71-23033 *	NASA-CASE-XNP-04623	c 10	N71-26103 *
NASA-CASE-XMS-06876	c 15	N71-21536 *	NASA-CASE-XNP-01328	c 26	N71-18064 *	NASA-CASE-XNP-04731	c 15	N71-24042 *
NASA-CASE-XMS-06949	c 09	N69-21467 *	NASA-CASE-XNP-01383	c 09	N71-10659 *	NASA-CASE-XNP-04732	c 09	N71-20851 *
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NASA-CASE-XMS-07846-1	c 09	N69-21927 *	NASA-CASE-XNP-01458	c 04	N78-17031 *	NASA-CASE-XNP-04816	c 06	N69-39936 *
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NASA-CASE-XMS-09310	c 15	N71-22706 *	NASA-CASE-XNP-01466	c 10	N71-26434 *	NASA-CASE-XNP-04819	c 08	N71-23295 *
NASA-CASE-XMS-09352	c 09	N71-23316 *	NASA-CASE-XNP-01472	c 14	N70-41807 *	NASA-CASE-XNP-04969	c 11	N69-27466 *
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NASA-CASE-XMS-09632-1	c 05	N71-11203 *	NASA-CASE-XNP-01641	c 15	N71-22997 *	NASA-CASE-XNP-05231	c 14	N73-28491 *
NASA-CASE-XMS-09635	c 05	N71-24623 *	NASA-CASE-XNP-01659	c 14	N71-23039 *	NASA-CASE-XNP-05254	c 07	N71-20791 *
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NASA-CASE-XMS-09653	c 54	N78-17680 *	NASA-CASE-XNP-01749	c 27	N70-41897 *	NASA-CASE-XNP-05415	c 08	N71-12505 *
NASA-CASE-XMS-09690	c 33	N72-25913 *	NASA-CASE-XNP-01753	c 08	N71-22897 *	NASA-CASE-XNP-05429	c 26	N71-21824 *
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NASA-CASE-XMS-10269	c 05	N71-24147 *	NASA-CASE-XNP-01855	c 15	N71-28937 *	NASA-CASE-XNP-05530	c 14	N73-32321 *
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NASA-CASE-XMS-10993	c 15	N71-28936 *	NASA-CASE-XNP-01959	c 26	N71-23043 *	NASA-CASE-XNP-05634	c 15	N71-24834 *
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NASA-CASE-XNP-00234	c 28	N70-38645 *	NASA-CASE-XNP-02139	c 18	N71-24184 *	NASA-CASE-XNP-06234	c 10	N71-27137 *
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NASA-CASE-XNP-00432	c 08	N70-35423 *	NASA-CASE-XNP-02507	c 31	N71-17679 *	NASA-CASE-XNP-06611	c 07	N71-26702 *
NASA-CASE-XNP-00438	c 21	N70-35089 *	NASA-CASE-XNP-02588	c 15	N71-18613 *	NASA-CASE-XNP-06914	c 15	N71-21489 *
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NASA-CASE-XNP-00477	c 08	N73-28045 *	NASA-CASE-XNP-02778	c 08	N71-22710 *	NASA-CASE-XNP-07169	c 15	N73-32362 *
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NASA-CASE-XNP-00676	c 15	N70-38996 *	NASA-CASE-XNP-03134	c 07	N71-10676 *	NASA-CASE-XNP-08836	c 09	N71-12515 *
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NASA-CASE-XNP-00708	c 14	N70-35394 *	NASA-CASE-XNP-03263	c 09	N71-18843 *	NASA-CASE-XNP-08840	c 23	N71-16365 *
NASA-CASE-XNP-00710	c 15	N71-10778 *	NASA-CASE-XNP-03282	c 28	N72-20758 *	NASA-CASE-XNP-08875	c 10	N71-23099 *
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US-PATENT-APPL-SN-175267	c 14	N73-28486 *		US-PATENT-APPL-SN-191746	c 26	N81-16209 *	US-PATENT-APPL-SN-205771	c 31	N89-29578 *
US-PATENT-APPL-SN-175452	c 27	N81-27272 *		US-PATENT-APPL-SN-191746	c 26	N82-30371 *	US-PATENT-APPL-SN-205898	c 09	N88-28938 *
US-PATENT-APPL-SN-175452	c 27	N85-21347 *		US-PATENT-APPL-SN-191748	c 35	N82-31659 *	US-PATENT-APPL-SN-205899	c 35	N88-24944 *
US-PATENT-APPL-SN-175453	c 85	N82-33288 *		US-PATENT-APPL-SN-192016	c 03	N70-36778 *	US-PATENT-APPL-SN-205900	c 35	N88-30105 *
US-PATENT-APPL-SN-175497	c 08	N73-28045 *		US-PATENT-APPL-SN-192101	c 10	N73-20254 *	US-PATENT-APPL-SN-206266	c 76	N74-20329 *
US-PATENT-APPL-SN-175852	c 25	N73-25760 *		US-PATENT-APPL-SN-192141	c 07	N73-24176 *	US-PATENT-APPL-SN-206266	c 76	N75-25730 *
US-PATENT-APPL-SN-175881	c 09	N73-15235 *		US-PATENT-APPL-SN-192562	c 04	N88-24621 *	US-PATENT-APPL-SN-206279	c 02	N73-26005 *
US-PATENT-APPL-SN-175981	c 16	N73-30476 *		US-PATENT-APPL-SN-192563	c 05	N88-24628 *	US-PATENT-APPL-SN-206279	c 05	N76-29217 *
US-PATENT-APPL-SN-175983	c 31	N73-32750 *		US-PATENT-APPL-SN-192603	c 07	N73-22076 *	US-PATENT-APPL-SN-206506	c 33	N82-24422 *
US-PATENT-APPL-SN-176545	c 31	N88-24817 *	#	US-PATENT-APPL-SN-192603	c 35	N76-16391 *	US-PATENT-APPL-SN-206698	c 15	N73-30459 *
US-PATENT-APPL-SN-176547	c 76	N88-25355 *	#	US-PATENT-APPL-SN-192670	c 23	N73-30665 *	US-PATENT-APPL-SN-207135	c 35	N83-27184 *
US-PATENT-APPL-SN-176587	c 20	N88-24684 *	#	US-PATENT-APPL-SN-193456	c 10	N73-25243 *	US-PATENT-APPL-SN-207211	c 07	N73-30113 *
US-PATENT-APPL-SN-177684	c 28	N70-34860 *		US-PATENT-APPL-SN-193671	c 15	N73-12488 *	US-PATENT-APPL-SN-209478	c 07	N70-38200 *
US-PATENT-APPL-SN-177753	c 07	N72-20154 *	#	US-PATENT-APPL-SN-193672	c 54	N74-14845 *	US-PATENT-APPL-SN-209479	c 15	N70-34850 *
US-PATENT-APPL-SN-177985	c 35	N74-15831 *		US-PATENT-APPL-SN-193814	c 14	N73-30393 *	US-PATENT-APPL-SN-209535	c 28	N73-24783 *
US-PATENT-APPL-SN-178192	c 25	N83-33977 *		US-PATENT-APPL-SN-193947	c 14	N73-13420 *	US-PATENT-APPL-SN-20960	c 15	N72-17453 *
US-PATENT-APPL-SN-178193	c 52	N82-29862 *		US-PATENT-APPL-SN-193980	c 31	N74-13177 *	US-PATENT-APPL-SN-209618	c 33	N75-19520 *
US-PATENT-APPL-SN-178195	c 35	N82-24470 *		US-PATENT-APPL-SN-195061	c 05	N75-25125 *	US-PATENT-APPL-SN-209618	c 33	N75-25041 *
US-PATENT-APPL-SN-178213	c 25	N70-33267 *		US-PATENT-APPL-SN-195222	c 31	N88-24814 *	US-PATENT-APPL-SN-209801	c 08	N70-40125 *
US-PATENT-APPL-SN-178215	c 25	N70-34661 *		US-PATENT-APPL-SN-195223	c 35	N83-21311 *	US-PATENT-APPL-SN-210277	c 39	N88-30160 *
US-PATENT-APPL-SN-178721	c 03	N70-35408 *		US-PATENT-APPL-SN-195225	c 32	N88-26541 *	US-PATENT-APPL-SN-210405	c 74	N84-11921 *
US-PATENT-APPL-SN-178771	c 23	N75-14834 *		US-PATENT-APPL-SN-195226	c 31	N83-31895 *	US-PATENT-APPL-SN-210445	c 29	N88-29048 *
US-PATENT-APPL-SN-180230	c 33	N83-18996 *		US-PATENT-APPL-SN-195226	c 17	N88-27220 *	US-PATENT-APPL-SN-210486	c 26	N88-29012 *
US-PATENT-APPL-SN-180370	c 28	N70-33375 *		US-PATENT-APPL-SN-195227	c 74	N83-32577 *	US-PATENT-APPL-SN-210487	c 35	N90-17117 *
US-PATENT-APPL-SN-180374	c 28	N70-38181 *		US-PATENT-APPL-SN-195228	c 74	N83-10900 *	US-PATENT-APPL-SN-210498	c 35	N84-12444 *
US-PATENT-APPL-SN-180377	c 15	N70-36908 *		US-PATENT-APPL-SN-195346	c 15	N70-36492 *	US-PATENT-APPL-SN-210506	c 39	N83-32081 *
US-PATENT-APPL-SN-180379	c 21	N70-35395 *		US-PATENT-APPL-SN-195347	c 31	N70-34135 *	US-PATENT-APPL-SN-210632	c 26	N83-10170 *
US-PATENT-APPL-SN-180380	c 09	N70-38998 *		US-PATENT-APPL-SN-195547	c 32	N83-18975 *	US-PATENT-APPL-SN-211332	c 02	N74-10034 *
US-PATENT-APPL-SN-180381	c 21	N70-35089 *		US-PATENT-APPL-SN-19572	c 35	N77-27368 *	US-PATENT-APPL-SN-211411	c 11	N73-20267 *
US-PATENT-APPL-SN-180382	c 28	N70-38645 *		US-PATENT-APPL-SN-19585	c 15	N72-25455 *	US-PATENT-APPL-SN-211464	c 28	N70-36910 *
US-PATENT-APPL-SN-180384	c 11	N70-38675 *		US-PATENT-APPL-SN-196399	c 07	N73-25161 *	US-PATENT-APPL-SN-212028	c 09	N73-14214 *
US-PATENT-APPL-SN-180391	c 28	N70-38249 *		US-PATENT-APPL-SN-196877	c 35	N84-17555 *	US-PATENT-APPL-SN-212165	c 14	N73-25460 *
US-PATENT-APPL-SN-180392	c 09	N71-13530 *		US-PATENT-APPL-SN-196898	c 38	N74-15130 *	US-PATENT-APPL-SN-212173	c 02	N71-13421 *
US-PATENT-APPL-SN-180394	c 15	N70-38603 *		US-PATENT-APPL-SN-196931	c 35	N74-17885 *	US-PATENT-APPL-SN-212174	c 15	N70-34859 *
US-PATENT-APPL-SN-180395	c 15	N70-36947 *		US-PATENT-APPL-SN-196970	c 15	N73-33383 *	US-PATENT-APPL-SN-212496	c 03	N70-36803 *
US-PATENT-APPL-SN-180396	c 11	N70-38202 *		US-PATENT-APPL-SN-197183	c 02	N72-21554 *	US-PATENT-APPL-SN-212497	c 11	N71-28779 *
US-PATENT-APPL-SN-180473	c 28	N73-27699 *		US-PATENT-APPL-SN-197191	c 32	N89-28672 *	US-PATENT-APPL-SN-21263	c 01	N71-12217 *
US-PATENT-APPL-SN-180683	c 10	N73-25241 *		US-PATENT-APPL-SN-197548	c 09	N70-34502 *	US-PATENT-APPL-SN-212900	c 14	N73-25462 *
US-PATENT-APPL-SN-180693	c 14	N73-27378 *		US-PATENT-APPL-SN-197551	c 31	N70-34296 *	US-PATENT-APPL-SN-212921	c 07	N73-20176 *
US-PATENT-APPL-SN-181023	c 15	N73-26472 *		US-PATENT-APPL-SN-197553	c 08	N70-34778 *	US-PATENT-APPL-SN-212949	c 35	N83-35338 *
US-PATENT-APPL-SN-181024	c 07	N73-26117 *		US-PATENT-APPL-SN-197554	c 14	N70-35368 *	US-PATENT-APPL-SN-212977	c 15	N73-30460 *
US-PATENT-APPL-SN-181828	c 02	N70-34858 *		US-PATENT-APPL-SN-197689	c 31	N74-14133 *	US-PATENT-APPL-SN-213004	c 14	N73-19421 *
US-PATENT-APPL-SN-181829	c 31	N70-38010 *		US-PATENT-APPL-SN-197689	c 31	N75-13111 *	US-PATENT-APPL-SN-213392	c 27	N89-13620 *
US-PATENT-APPL-SN-182000	c 16	N88-24660 *	#	US-PATENT-APPL-SN-197870	c 14	N73-32322 *	US-PATENT-APPL-SN-213558	c 51	N89-13311 *
US-PATENT-APPL-SN-182033	c 33	N73-27796 *		US-PATENT-APPL-SN-198093	c 39	N83-20280 *	US-PATENT-APPL-SN-213559	c 51	N89-14666 *
US-PATENT-APPL-SN-182266	c 17	N88-24662 *	#	US-PATENT-APPL-SN-198285	c 09	N73-13208 *	US-PATENT-APPL-SN-213836	c 15	N70-38601 *
US-PATENT-APPL-SN-182399	c 07	N73-28013 *		US-PATENT-APPL-SN-198289	c 14	N73-32326 *	US-PATENT-APPL-SN-213880	c 54	N89-12206 *
US-PATENT-APPL-SN-182692	c 15	N70-36535 *		US-PATENT-APPL-SN-198355	c 05	N72-15098 *	US-PATENT-APPL-SN-213949	c 07	N73-20175 *
US-PATENT-APPL-SN-182696	c 21	N70-36938 *		US-PATENT-APPL-SN-198362	c 14	N73-28489 *	US-PATENT-APPL-SN-214006	c 37	N74-18126 *
US-PATENT-APPL-SN-182698	c 15	N70-38620 *		US-PATENT-APPL-SN-198379	c 15	N73-32359 *	US-PATENT-APPL-SN-214084	c 37	N74-18123 *
US-PATENT-APPL-SN-182699	c 28	N70-38504 *		US-PATENT-APPL-SN-198472	c 27	N74-12812 *	US-PATENT-APPL-SN-214086	c 14	N73-30395 *
US-PATENT-APPL-SN-182879	c 37	N82-32730 *		US-PATENT-APPL-SN-198763	c 31	N74-18124 *	US-PATENT-APPL-SN-214089	c 35	N74-21018 *
US-PATENT-APPL-SN-182880	c 37	N83-19091 *		US-PATENT-APPL-SN-198763	c 31	N74-32920 *	US-PATENT-APPL-SN-214361	c 37	N83-32067 *
US-PATENT-APPL-SN-182881	c 18	N83-28064 *		US-PATENT-APPL-SN-198885	c 05	N73-27062 *	US-PATENT-APPL-SN-21508	c 08	N72-20176 *
US-PATENT-APPL-SN-182977	c 39	N74-13131 *		US-PATENT-APPL-SN-199199	c 25	N71-29184 *	US-PATENT-APPL-SN-21644	c 05	N72-22092 *
US-PATENT-APPL-SN-182978	c 16	N73-13489 *		US-PATENT-APPL-SN-199202	c 14	N70-40239 *	US-PATENT-APPL-SN-216710	c 12	N70-38997 *
US-PATENT-APPL-SN-183240	c 06	N73-30098 *		US-PATENT-APPL-SN-19971	c 09	N70-33312 *	US-PATENT-APPL-SN-216711	c 03	N70-34157 *
US-PATENT-APPL-SN-183707	c 23	N85-33187 *		US-PATENT-APPL-SN-199765	c 33	N81-12330 *	US-PATENT-APPL-SN-216939	c 14	N70-40400 *
US-PATENT-APPL-SN-183977	c 28	N70-38505 *		US-PATENT-APPL-SN-199766	c 36	N84-28065 *	US-PATENT-APPL-SN-217213	c 37	N74-11301 *
US-PATENT-APPL-SN-183978	c 15	N70-38020 *		US-PATENT-APPL-SN-199767	c 33	N83-16626 *	US-PATENT-APPL-SN-21732	c 15	N70-26819 *
US-PATENT-APPL-SN-184090	c 14	N73-32327 *		US-PATENT-APPL-SN-199768	c 27	N84-22746 *	US-PATENT-APPL-SN-217336	c 27	N82-29456 *
US-PATENT-APPL-SN-184233	c 18	N89-28554 *		US-PATENT-APPL-SN-199768	c 27	N85-20123 *	US-PATENT-APPL-SN-217533	c 76	N88-29602 *
US-PATENT-APPL-SN-184234	c 76	N90-19884 *		US-PATENT-APPL-SN-199769	c 26	N82-31505 *	US-PATENT-APPL-SN-217725	c 35	N89-12843 *
US-PATENT-APPL-SN-184235	c 32	N90-17005 *		US-PATENT-APPL-SN-199957	c 10	N73-26229 *	US-PATENT-APPL-SN-218585	c 27	N82-24340 *
US-PATENT-APPL-SN-184236	c 37	N90-17153 *		US-PATENT-APPL-SN-200040	c 52	N74-10975 *	US-PATENT-APPL-SN-218586	c 36	N81-22344 *
US-PATENT-APPL-SN-18427	c 09	N72-23172 *		US-PATENT-APPL-SN-200085	c 26	N73-26751 *	US-PATENT-APPL-SN-218587	c 27	N82-28440 *
US-PATENT-APPL-SN-184649	c 07	N70-36911 *		US-PATENT-APPL-SN-200634	c 34	N83-27144 *	US-PATENT-APPL-SN-218588	c 27	N82-33521 *
US-PATENT-APPL-SN-184960	c 06	N73-27980 *		US-PATENT-APPL-SN-200682	c 07	N73-14130 *	US-PATENT-APPL-SN-218965	c 10	N73-32145 *
US-PATENT-APPL-SN-185865	c 52	N80-33081 *	#	US-PATENT-APPL-SN-200717	c 09	N73-19234 *	US-PATENT-APPL-SN-219016	c 24	N88-29888 *
US-PATENT-APPL-SN-185867	c 44	N82-26777 *		US-PATENT-APPL-SN-200762	c 03	N73-20040 *	US-PATENT-APPL-SN-21906	c 09	N72-17157 *
US-PATENT-APPL-SN-185868	c 24	N84-16262 *		US-PATENT-APPL-SN-200770	c 09	N79-21084 *	US-PATENT-APPL-SN-219295	c 61	N90-16410 *
US-PATENT-APPL-SN-185869	c 71	N82-16800 *		US-PATENT-APPL-SN-200874	c 17	N88-28946 *	US-PATENT-APPL-SN-219435	c 24	N74-27035

US-PATENT-APPL-SN-219680	c 27	N82-28442 *	US-PATENT-APPL-SN-235472	c 60	N84-28492 *	US-PATENT-APPL-SN-248010	c 37	N89-12866 *	#
US-PATENT-APPL-SN-219681	c 24	N82-29362 *	US-PATENT-APPL-SN-235588	c 28	N71-28928 *	US-PATENT-APPL-SN-248018	c 24	N89-14258 *	#
US-PATENT-APPL-SN-219681	c 54	N84-11758 *	US-PATENT-APPL-SN-235796	c 35	N82-28604 *	US-PATENT-APPL-SN-248019	c 76	N89-14120 *	#
US-PATENT-APPL-SN-219722	c 03	N75-30132 *	US-PATENT-APPL-SN-235797	c 44	N83-32175 *	US-PATENT-APPL-SN-248020	c 35	N89-14408 *	#
US-PATENT-APPL-SN-219806	c 07	N74-28226 *	US-PATENT-APPL-SN-235868	c 34	N83-29625 *	US-PATENT-APPL-SN-248469	c 14	N73-32318 *	#
US-PATENT-APPL-SN-219968	c 33	N83-27126 *	US-PATENT-APPL-SN-235957	c 14	N73-27376 *	US-PATENT-APPL-SN-248471	c 31	N74-27902 *	#
US-PATENT-APPL-SN-220212	c 33	N83-31952 *	US-PATENT-APPL-SN-235962	c 36	N74-11313 *	US-PATENT-APPL-SN-248501	c 37	N89-13787 *	#
US-PATENT-APPL-SN-220213	c 37	N85-20337 *	US-PATENT-APPL-SN-236052	c 14	N72-25428 *	US-PATENT-APPL-SN-248744	c 05	N83-19737 *	#
US-PATENT-APPL-SN-220214	c 44	N82-29710 *	US-PATENT-APPL-SN-236281	c 09	N73-20232 *	US-PATENT-APPL-SN-248745	c 18	N83-29303 *	#
US-PATENT-APPL-SN-220251	c 37	N74-15125 *	US-PATENT-APPL-SN-236285	c 08	N73-26175 *	US-PATENT-APPL-SN-248746	c 37	N83-36482 *	#
US-PATENT-APPL-SN-220274	c 31	N72-20840 *	US-PATENT-APPL-SN-236748	c 14	N70-40157 *	US-PATENT-APPL-SN-248761	c 15	N74-27360 *	#
US-PATENT-APPL-SN-220274	c 18	N74-22136 *	US-PATENT-APPL-SN-236749	c 15	N70-40180 *	US-PATENT-APPL-SN-248985	c 03	N71-29129 *	#
US-PATENT-APPL-SN-220785	c 85	N74-34672 *	US-PATENT-APPL-SN-236985	c 44	N74-19692 *	US-PATENT-APPL-SN-249304	c 35	N84-14491 *	#
US-PATENT-APPL-SN-221093	c 17	N73-32415 *	US-PATENT-APPL-SN-237029	c 09	N73-32108 *	US-PATENT-APPL-SN-249537	c 14	N71-10797 *	#
US-PATENT-APPL-SN-221276	c 14	N70-41955 *	US-PATENT-APPL-SN-237035	c 35	N89-13764 *	US-PATENT-APPL-SN-249539	c 28	N71-15658 *	#
US-PATENT-APPL-SN-221387	c 36	N89-14428 *	US-PATENT-APPL-SN-237491	c 05	N75-12930 *	US-PATENT-APPL-SN-249540	c 15	N70-34861 *	#
US-PATENT-APPL-SN-221472	c 54	N89-13889 *	US-PATENT-APPL-SN-237694	c 35	N74-11284 *	US-PATENT-APPL-SN-249542	c 28	N70-41576 *	#
US-PATENT-APPL-SN-221634	c 05	N70-34857 *	US-PATENT-APPL-SN-238047	c 33	N74-12951 *	US-PATENT-APPL-SN-250195	c 34	N89-13728 *	#
US-PATENT-APPL-SN-221637	c 26	N70-36805 *	US-PATENT-APPL-SN-238257	c 07	N84-33410 *	US-PATENT-APPL-SN-250196	c 37	N89-12868 *	#
US-PATENT-APPL-SN-221670	c 35	N77-14408 *	US-PATENT-APPL-SN-238263	c 35	N74-10415 *	US-PATENT-APPL-SN-250451	c 08	N70-34787 *	#
US-PATENT-APPL-SN-221685	c 35	N74-21062 *	US-PATENT-APPL-SN-238264	c 37	N74-10161 *	US-PATENT-APPL-SN-250468	c 05	N89-14233 *	#
US-PATENT-APPL-SN-221714	c 09	N73-32110 *	US-PATENT-APPL-SN-238264	c 37	N74-32921 *	US-PATENT-APPL-SN-250567	c 33	N71-24876 *	#
US-PATENT-APPL-SN-221833	c 09	N73-27150 *	US-PATENT-APPL-SN-238264	c 37	N76-15461 *	US-PATENT-APPL-SN-250585	c 32	N85-21428 *	#
US-PATENT-APPL-SN-221945	c 31	N70-36410 *	US-PATENT-APPL-SN-238421	c 28	N71-29153 *	US-PATENT-APPL-SN-250661	c 23	N89-11814 *	#
US-PATENT-APPL-SN-22265	c 14	N72-21405 *	US-PATENT-APPL-SN-238785	c 44	N83-14693 *	US-PATENT-APPL-SN-250766	c 07	N73-30115 *	#
US-PATENT-APPL-SN-223003	c 33	N70-36846 *	US-PATENT-APPL-SN-238786	c 37	N83-26078 *	US-PATENT-APPL-SN-250974	c 31	N71-15664 *	#
US-PATENT-APPL-SN-223124	c 31	N90-19427 *	US-PATENT-APPL-SN-238790	c 44	N82-29708 *	US-PATENT-APPL-SN-251009	c 33	N84-16452 *	#
US-PATENT-APPL-SN-22320	c 14	N72-11365 *	US-PATENT-APPL-SN-238791	c 71	N84-14873 *	US-PATENT-APPL-SN-251449	c 07	N70-40063 *	#
US-PATENT-APPL-SN-223560	c 10	N73-32144 *	US-PATENT-APPL-SN-238826	c 28	N77-10213 *	US-PATENT-APPL-SN-251451	c 09	N70-35425 *	#
US-PATENT-APPL-SN-224231	c 06	N83-10040 *	US-PATENT-APPL-SN-238887	c 37	N81-22360 *	US-PATENT-APPL-SN-251499	c 24	N89-14259 *	#
US-PATENT-APPL-SN-224231	c 06	N84-34443 *	US-PATENT-APPL-SN-238888	c 37	N84-28082 *	US-PATENT-APPL-SN-251609	c 05	N73-30078 *	#
US-PATENT-APPL-SN-224232	c 36	N83-29680 *	US-PATENT-APPL-SN-239260	c 37	N89-12867 *	US-PATENT-APPL-SN-251621	c 16	N73-32391 *	#
US-PATENT-APPL-SN-224489	c 31	N74-18089 *	US-PATENT-APPL-SN-239573	c 33	N74-10223 *	US-PATENT-APPL-SN-251752	c 24	N74-30001 *	#
US-PATENT-APPL-SN-225427	c 37	N88-30130 *	US-PATENT-APPL-SN-239574	c 09	N73-32107 *	US-PATENT-APPL-SN-25175	c 28	N70-39895 *	#
US-PATENT-APPL-SN-225499	c 37	N84-12491 *	US-PATENT-APPL-SN-239575	c 09	N74-19528 *	US-PATENT-APPL-SN-252259	c 33	N70-34545 *	#
US-PATENT-APPL-SN-225501	c 44	N82-28780 *	US-PATENT-APPL-SN-239576	c 33	N74-14935 *	US-PATENT-APPL-SN-253249	c 33	N74-11050 *	#
US-PATENT-APPL-SN-226476	c 10	N73-32143 *	US-PATENT-APPL-SN-239577	c 35	N74-13132 *	US-PATENT-APPL-SN-253405	c 10	N73-26228 *	#
US-PATENT-APPL-SN-226477	c 74	N74-27866 *	US-PATENT-APPL-SN-239803	c 70	N74-13436 *	US-PATENT-APPL-SN-253725	c 35	N74-13129 *	#
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US-PATENT-APPL-SN-275118	c 35	N74-18088 *		US-PATENT-APPL-SN-292146	c 37	N89-28830 *	US-PATENT-APPL-SN-310507	c 07	N71-11298 *
US-PATENT-APPL-SN-275909	c 33	N85-21491 *		US-PATENT-APPL-SN-292340	c 52	N79-21750 *	US-PATENT-APPL-SN-310615	c 37	N74-27901 *
US-PATENT-APPL-SN-276076	c 72	N84-16959 *	#	US-PATENT-APPL-SN-292382	c 27	N74-17283 *	US-PATENT-APPL-SN-310616	c 35	N74-21017 *
US-PATENT-APPL-SN-276599	c 74	N81-19896 *		US-PATENT-APPL-SN-292477	c 15	N73-12495 *	US-PATENT-APPL-SN-310624	c 33	N74-17929 *
US-PATENT-APPL-SN-276748	c 33	N83-34189 *		US-PATENT-APPL-SN-292596	c 10	N71-29135 *	US-PATENT-APPL-SN-310714	c 33	N82-11360 *
US-PATENT-APPL-SN-276749	c 74	N84-23247 *		US-PATENT-APPL-SN-292681	c 33	N74-10194 *	US-PATENT-APPL-SN-311175	c 52	N74-22771 *
US-PATENT-APPL-SN-277404	c 05	N70-39922 *		US-PATENT-APPL-SN-292682	c 14	N73-32319 *	US-PATENT-APPL-SN-311234	c 35	N74-23040 *
US-PATENT-APPL-SN-277436	c 37	N74-25968 *		US-PATENT-APPL-SN-292685	c 32	N74-20864 *	US-PATENT-APPL-SN-311387	c 23	N71-30027 *
US-PATENT-APPL-SN-277596	c 74	N89-24153 *	#	US-PATENT-APPL-SN-292686	c 20	N74-31269 *	US-PATENT-APPL-SN-312269	c 28	N71-14043 *
US-PATENT-APPL-SN-277833	c 03	N70-41580 *		US-PATENT-APPL-SN-292698	c 09	N73-32109 *	US-PATENT-APPL-SN-31242	c 28	N70-33374 *
US-PATENT-APPL-SN-277904	c 28	N74-27425 *		US-PATENT-APPL-SN-293412	c 27	N83-34039 *	US-PATENT-APPL-SN-312443	c 10	N71-21473 *
US-PATENT-APPL-SN-277961	c 33	N70-36617 *		US-PATENT-APPL-SN-293414	c 37	N84-16560 *	US-PATENT-APPL-SN-313132	c 28	N70-34175 *
US-PATENT-APPL-SN-278137	c 51	N89-25557 *	#	US-PATENT-APPL-SN-293417	c 37	N82-26673 *	US-PATENT-APPL-SN-313135	c 15	N70-35087 *
US-PATENT-APPL-SN-278790	c 15	N70-34664 *		US-PATENT-APPL-SN-293418	c 26	N83-31795 *	US-PATENT-APPL-SN-313136	c 09	N71-12540 *
US-PATENT-APPL-SN-2792	c 14	N70-33386 *		US-PATENT-APPL-SN-293419	c 33	N82-24427 *	US-PATENT-APPL-SN-313381	c 35	N74-15091 *
US-PATENT-APPL-SN-279624	c 24	N89-23623 *	#	US-PATENT-APPL-SN-293725	c 89	N74-30886 *	US-PATENT-APPL-SN-314074	c 15	N71-16079 *
US-PATENT-APPL-SN-279625	c 31	N89-23739 *	#	US-PATENT-APPL-SN-293726	c 37	N74-21055 *	US-PATENT-APPL-SN-314570	c 10	N71-28960 *
US-PATENT-APPL-SN-279630	c 60	N89-29955 *	#	US-PATENT-APPL-SN-293727	c 33	N74-14956 *	US-PATENT-APPL-SN-314572	c 14	N71-15992 *
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US-PATENT-APPL-SN-279676	c 33	N89-29679 *	#	US-PATENT-APPL-SN-294727	c 73	N77-18891 *	US-PATENT-APPL-SN-314702	c 71	N84-16940 *
US-PATENT-APPL-SN-279677	c 31	N89-23738 *	#	US-PATENT-APPL-SN-294738	c 73	N78-28913 *	US-PATENT-APPL-SN-314928	c 32	N84-34651 *
US-PATENT-APPL-SN-280029	c 35	N74-15126 *		US-PATENT-APPL-SN-295855	c 23	N71-17802 *	US-PATENT-APPL-SN-314929	c 71	N83-32515 *
US-PATENT-APPL-SN-280031	c 26	N73-26752 *		US-PATENT-APPL-SN-296137	c 74	N84-28590 *	US-PATENT-APPL-SN-315048	c 34	N74-27730 *
US-PATENT-APPL-SN-280032	c 35	N74-15093 *		US-PATENT-APPL-SN-296622	c 44	N76-31666 *	US-PATENT-APPL-SN-315069	c 33	N74-20862 *
US-PATENT-APPL-SN-280151	c 27	N83-36220 *		US-PATENT-APPL-SN-296879	c 26	N71-18064 *	US-PATENT-APPL-SN-315070	c 60	N76-23850 *
US-PATENT-APPL-SN-280152	c 54	N86-22112 *		US-PATENT-APPL-SN-297127	c 33	N74-27705 *	US-PATENT-APPL-SN-315096	c 12	N70-40124 *
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US-PATENT-APPL-SN-280154	c 33	N83-10345 *		US-PATENT-APPL-SN-297436	c 33	N79-11314 *	US-PATENT-APPL-SN-315278	c 51	N83-28849 *
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US-PATENT-APPL-SN-280305	c 34	N74-23039 *		US-PATENT-APPL-SN-297488	c 37	N84-16561 *	US-PATENT-APPL-SN-315584	c 23	N84-16255 *
US-PATENT-APPL-SN-280362	c 14	N71-28935 *		US-PATENT-APPL-SN-297524	c 33	N84-14424 *	US-PATENT-APPL-SN-315587	c 25	N83-31743 *
US-PATENT-APPL-SN-280390	c 37	N74-15128 *		US-PATENT-APPL-SN-297524	c 33	N84-22886 *	US-PATENT-APPL-SN-315588	c 05	N84-22551 *
US-PATENT-APPL-SN-280580	c 12	N71-21089 *		US-PATENT-APPL-SN-298150	c 25	N90-11823 *	US-PATENT-APPL-SN-316477	c 18	N71-10772 *
US-PATENT-APPL-SN-280776	c 14	N70-							

US-PATENT-APPL-SN-317567	c 36	N75-15029 *	US-PATENT-APPL-SN-338484	c 32	N74-20811 *	US-PATENT-APPL-SN-357126	c 35	N74-34857 *
US-PATENT-APPL-SN-317658	c 36	N84-16542 *	US-PATENT-APPL-SN-339040	c 31	N70-41373 *	US-PATENT-APPL-SN-357312	c 27	N76-16229 *
US-PATENT-APPL-SN-317931	c 51	N90-18852 *	US-PATENT-APPL-SN-339806	c 07	N74-27490 *	US-PATENT-APPL-SN-357334	c 03	N71-12258 *
US-PATENT-APPL-SN-317977	c 25	N83-36811 *	US-PATENT-APPL-SN-339821	c 17	N70-32388 *	US-PATENT-APPL-SN-357336	c 03	N71-12259 *
US-PATENT-APPL-SN-318151	c 75	N74-30156 *	US-PATENT-APPL-SN-339825	c 28	N71-15660 *	US-PATENT-APPL-SN-357337	c 15	N71-10782 *
US-PATENT-APPL-SN-318152	c 52	N74-20728 *	US-PATENT-APPL-SN-340113	c 16	N70-41578 *	US-PATENT-APPL-SN-357340	c 23	N71-15673 *
US-PATENT-APPL-SN-318357	c 35	N74-21019 *	US-PATENT-APPL-SN-340791	c 35	N74-26945 *	US-PATENT-APPL-SN-357757	c 14	N89-28547 *
US-PATENT-APPL-SN-318358	c 27	N74-27037 *	US-PATENT-APPL-SN-340862	c 33	N77-26387 *	US-PATENT-APPL-SN-357759	c 62	N90-10608 *
US-PATENT-APPL-SN-318443	c 03	N70-34667 *	US-PATENT-APPL-SN-340863	c 25	N76-27383 *	US-PATENT-APPL-SN-357938	c 45	N89-28967 *
US-PATENT-APPL-SN-318848	c 35	N77-14408 *	US-PATENT-APPL-SN-340864	c 31	N74-21059 *	US-PATENT-APPL-SN-358027	c 35	N89-28794 *
US-PATENT-APPL-SN-31885	c 10	N72-17172 *	US-PATENT-APPL-SN-340871	c 44	N74-19870 *	US-PATENT-APPL-SN-358028	c 37	N89-28842 *
US-PATENT-APPL-SN-319150	c 33	N75-19519 *	US-PATENT-APPL-SN-341406	c 71	N83-35781 *	US-PATENT-APPL-SN-358088	c 35	N84-33767 *
US-PATENT-APPL-SN-319410	c 37	N74-20063 *	US-PATENT-APPL-SN-341467	c 15	N70-39924 *	US-PATENT-APPL-SN-358089	c 71	N84-23233 *
US-PATENT-APPL-SN-319892	c 07	N71-10609 *	US-PATENT-APPL-SN-341621	c 54	N74-20725 *	US-PATENT-APPL-SN-358127	c 05	N71-12335 *
US-PATENT-APPL-SN-319893	c 14	N70-41647 *	US-PATENT-APPL-SN-341662	c 08	N74-10942 *	US-PATENT-APPL-SN-358398	c 36	N84-22944 *
US-PATENT-APPL-SN-319894	c 03	N71-11053 *	US-PATENT-APPL-SN-3417	c 15	N72-22490 *	US-PATENT-APPL-SN-359039	c 32	N74-30523 *
US-PATENT-APPL-SN-319905	c 14	N71-10781 *	US-PATENT-APPL-SN-3418	c 15	N72-20446 *	US-PATENT-APPL-SN-359156	c 14	N75-24794 *
US-PATENT-APPL-SN-320233	c 33	N71-15625 *	US-PATENT-APPL-SN-3418	c 15	N73-19457 *	US-PATENT-APPL-SN-359157	c 35	N74-18090 *
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US-PATENT-APPL-SN-320621	c 27	N83-34040 *	US-PATENT-APPL-SN-342574	c 03	N71-20904 *	US-PATENT-APPL-SN-359388	c 44	N83-32177 *
US-PATENT-APPL-SN-321179	c 27	N74-21156 *	US-PATENT-APPL-SN-342828	c 74	N85-29749 *	US-PATENT-APPL-SN-359459	c 36	N89-28817 *
US-PATENT-APPL-SN-321180	c 05	N76-29217 *	US-PATENT-APPL-SN-342857	c 72	N84-28575 *	US-PATENT-APPL-SN-359460	c 36	N89-28816 *
US-PATENT-APPL-SN-321656	c 14	N70-41807 *	US-PATENT-APPL-SN-342871	c 27	N84-33589 *	US-PATENT-APPL-SN-359532	c 15	N71-28959 *
US-PATENT-APPL-SN-322312	c 25	N84-22709 *	US-PATENT-APPL-SN-343308	c 19	N74-29410 *	US-PATENT-APPL-SN-359626	c 35	N84-28018 *
US-PATENT-APPL-SN-322314	c 35	N84-12443 *	US-PATENT-APPL-SN-343425	c 11	N70-35383 *	US-PATENT-APPL-SN-359627	c 35	N82-26631 *
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US-PATENT-APPL-SN-322317	c 46	N85-21846 *	US-PATENT-APPL-SN-343607	c 18	N74-27397 *	US-PATENT-APPL-SN-359801	c 74	N89-29191 *
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US-PATENT-APPL-SN-322545	c 14	N71-10774 *	US-PATENT-APPL-SN-343760	c 07	N71-28979 *	US-PATENT-APPL-SN-359958	c 37	N74-26976 *
US-PATENT-APPL-SN-322565	c 37	N75-27376 *	US-PATENT-APPL-SN-344410	c 07	N74-33218 *	US-PATENT-APPL-SN-360180	c 17	N71-16026 *
US-PATENT-APPL-SN-322997	c 37	N75-15992 *	US-PATENT-APPL-SN-344793	c 03	N71-11058 *	US-PATENT-APPL-SN-360182	c 31	N70-36654 *
US-PATENT-APPL-SN-322997	c 24	N79-25143 *	US-PATENT-APPL-SN-344877	c 24	N90-15148 *	US-PATENT-APPL-SN-360878	c 03	N71-11051 *
US-PATENT-APPL-SN-322998	c 35	N74-32877 *	US-PATENT-APPL-SN-345372	c 33	N74-22814 *	US-PATENT-APPL-SN-361200	c 18	N89-28556 *
US-PATENT-APPL-SN-323182	c 03	N70-41864 *	US-PATENT-APPL-SN-346356	c 14	N70-41676 *	US-PATENT-APPL-SN-361215	c 27	N84-14323 *
US-PATENT-APPL-SN-323748	c 61	N90-16411 *	US-PATENT-APPL-SN-346361	c 37	N74-21064 *	US-PATENT-APPL-SN-361216	c 35	N84-28016 *
US-PATENT-APPL-SN-324029	c 32	N74-27612 *	US-PATENT-APPL-SN-346372	c 35	N75-12270 *	US-PATENT-APPL-SN-361217	c 71	N85-22104 *
US-PATENT-APPL-SN-32496	c 15	N70-37925 *	US-PATENT-APPL-SN-346483	c 37	N74-32921 *	US-PATENT-APPL-SN-361479	c 14	N89-28546 *
US-PATENT-APPL-SN-325082	c 35	N83-29652 *	US-PATENT-APPL-SN-346483	c 37	N76-15461 *	US-PATENT-APPL-SN-361531	c 35	N89-28795 *
US-PATENT-APPL-SN-325083	c 33	N84-16456 *	US-PATENT-APPL-SN-347101	c 09	N70-41675 *	US-PATENT-APPL-SN-361666	c 33	N75-30428 *
US-PATENT-APPL-SN-325784	c 24	N76-14204 *	US-PATENT-APPL-SN-347626	c 15	N70-40204 *	US-PATENT-APPL-SN-361711	c 24	N82-26387 *
US-PATENT-APPL-SN-325885	c 35	N82-25484 *	US-PATENT-APPL-SN-347952	c 37	N75-13265 *	US-PATENT-APPL-SN-361711	c 24	N84-16262 *
US-PATENT-APPL-SN-325886	c 33	N83-34190 *	US-PATENT-APPL-SN-347953	c 05	N75-24716 *	US-PATENT-APPL-SN-361906	c 33	N74-20861 *
US-PATENT-APPL-SN-325931	c 37	N82-26674 *	US-PATENT-APPL-SN-347960	c 03	N70-39930 *	US-PATENT-APPL-SN-361907	c 35	N74-27865 *
US-PATENT-APPL-SN-325932	c 33	N84-16455 *	US-PATENT-APPL-SN-348422	c 27	N76-15311 *	US-PATENT-APPL-SN-362145	c 32	N75-26194 *
US-PATENT-APPL-SN-325933	c 76	N83-20789 *	US-PATENT-APPL-SN-348600	c 28	N71-29154 *	US-PATENT-APPL-SN-362146	c 33	N75-18479 *
US-PATENT-APPL-SN-326198	c 35	N75-12272 *	US-PATENT-APPL-SN-348778	c 33	N75-19521 *	US-PATENT-APPL-SN-362261	c 14	N73-32325 *
US-PATENT-APPL-SN-326298	c 14	N71-22765 *	US-PATENT-APPL-SN-349778	c 09	N70-40234 *	US-PATENT-APPL-SN-362278	c 37	N78-17385 *
US-PATENT-APPL-SN-326299	c 26	N71-17818 *	US-PATENT-APPL-SN-349781	c 31	N71-15647 *	US-PATENT-APPL-SN-363130	c 25	N81-19244 *
US-PATENT-APPL-SN-326326	c 35	N74-32879 *	US-PATENT-APPL-SN-349782	c 09	N71-16086 *	US-PATENT-APPL-SN-363348	c 05	N70-41581 *
US-PATENT-APPL-SN-326327	c 44	N74-27519 *	US-PATENT-APPL-SN-34989	c 36	N74-13205 *	US-PATENT-APPL-SN-363653	c 07	N70-41331 *
US-PATENT-APPL-SN-326364	c 51	N75-13502 *	US-PATENT-APPL-SN-350249	c 36	N75-15028 *	US-PATENT-APPL-SN-363654	c 07	N70-41372 *
US-PATENT-APPL-SN-32664	c 11	N72-25287 *	US-PATENT-APPL-SN-350250	c 27	N75-27160 *	US-PATENT-APPL-SN-363691	c 20	N76-14190 *
US-PATENT-APPL-SN-32665	c 14	N72-22444 *	US-PATENT-APPL-SN-350300	c 31	N74-32920 *	US-PATENT-APPL-SN-363815	c 33	N90-10329 *
US-PATENT-APPL-SN-327163	c 03	N71-20895 *	US-PATENT-APPL-SN-350471	c 35	N85-29213 *	US-PATENT-APPL-SN-364041	c 76	N85-30923 *
US-PATENT-APPL-SN-327565	c 02	N70-36825 *	US-PATENT-APPL-SN-350472	c 33	N84-14424 *	US-PATENT-APPL-SN-364072	c 70	N84-28565 *
US-PATENT-APPL-SN-327921	c 54	N75-13531 *	US-PATENT-APPL-SN-350473	c 07	N84-22559 *	US-PATENT-APPL-SN-364092	c 76	N83-35888 *
US-PATENT-APPL-SN-327969	c 35	N75-13213 *	US-PATENT-APPL-SN-350474	c 35	N84-22928 *	US-PATENT-APPL-SN-364093	c 37	N83-34323 *
US-PATENT-APPL-SN-328140	c 18	N71-21651 *	US-PATENT-APPL-SN-350475	c 35	N84-28017 *	US-PATENT-APPL-SN-364094	c 37	N84-28083 *
US-PATENT-APPL-SN-328760	c 31	N83-35177 *	US-PATENT-APPL-SN-350476	c 26	N84-22734 *	US-PATENT-APPL-SN-364097	c 71	N82-27086 *
US-PATENT-APPL-SN-328792	c 35	N75-12273 *	US-PATENT-APPL-SN-350477	c 35	N84-33765 *	US-PATENT-APPL-SN-364126	c 36	N84-22943 *
US-PATENT-APPL-SN-329237	c 33	N74-34638 *	US-PATENT-APPL-SN-350813	c 32	N89-28684 *	US-PATENT-APPL-SN-364743	c 37	N89-28841 *
US-PATENT-APPL-SN-329243	c 28	N74-33209 *	US-PATENT-APPL-SN-351259	c 15	N71-10672 *	US-PATENT-APPL-SN-364867	c 09	N71-10673 *
US-PATENT-APPL-SN-329331	c 15	N71-15906 *	US-PATENT-APPL-SN-351929	c 33	N75-14957 *	US-PATENT-APPL-SN-365244	c 37	N78-17386 *
US-PATENT-APPL-SN-329595	c 05	N70-41329 *	US-PATENT-APPL-SN-351950	c 33	N75-27249 *	US-PATENT-APPL-SN-36531	c 07	N72-25174 *
US-PATENT-APPL-SN-329958	c 33	N74-22885 *	US-PATENT-APPL-SN-352381	c 20	N75-18310 *	US-PATENT-APPL-SN-36534	c 21	N73-14692 *
US-PATENT-APPL-SN-330209	c 15	N70-41646 *	US-PATENT-APPL-SN-352381	c 37	N76-14461 *	US-PATENT-APPL-SN-3654	c 35	N77-27367 *
US-PATENT-APPL-SN-330210	c 14	N71-21090 *	US-PATENT-APPL-SN-352382	c 60	N75-13539 *	US-PATENT-APPL-SN-365644	c 35	N74-26946 *
US-PATENT-APPL-SN-331323	c 07	N71-16088 *	US-PATENT-APPL-SN-352383	c 35	N75-16783 *	US-PATENT-APPL-SN-365950	c 27	N83-18908 *
US-PATENT-APPL-SN-331324	c 05	N70-35152 *	US-PATENT-APPL-SN-352400	c 26	N71-10607 *	US-PATENT-APPL-SN-366025	c 27	N84-22744 *
US-PATENT-APPL-SN-33159	c 10	N72-11256 *	US-PATENT-APPL-SN-352821	c 44	N84-28205 *	US-PATENT-APPL-SN-366103	c 76	N84-35112 *
US-PATENT-APPL-SN-331759	c 07	N76-18117 *	US-PATENT-APPL-SN-352822	c 35	N84-28015 *	US-PATENT-APPL-SN-366226	c 10	N71-16057 *
US-PATENT-APPL-SN-331760	c 35	N74-27860 *	US-PATENT-APPL-SN-352827	c 35	N85-21598 *	US-PATENT-APPL-SN-366957	c 27	N90-10261 *
US-PATENT-APPL-SN-332123	c 27	N80-32514 *	US-PATENT-APPL-SN-352831	c 35	N84-16523 *	US-PATENT-APPL-SN-367132	c 32	N85-21427 *
US-PATENT-APPL-SN-332313	c 21	N71-10678 *	US-PATENT-APPL-SN-353162	c 33	N75-26243 *	US-PATENT-APPL-SN-367134	c 44	N83-34449 *
US-PATENT-APPL-SN-332339	c 07	N71-11284 *	US-PATENT-APPL-SN-353411	c 37	N89-28846 *	US-PATENT-APPL-SN-367136	c 35	N85-21596 *
US-PATENT-APPL-SN-333535	c 74	N83-36898 *	US-PATENT-APPL-SN-353632	c 15	N71-13789 *	US-PATENT-APPL-SN-367187	c 04	N84-14132 *
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US-PATENT-APPL-SN-469864	c 37	N86-19605 *	US-PATENT-APPL-SN-487342	c 09	N71-21583 *	US-PATENT-APPL-SN-506137	c 15	N71-23049 *
US-PATENT-APPL-SN-469866	c 27	N84-22749 *	US-PATENT-APPL-SN-487343	c 03	N69-39890 *	US-PATENT-APPL-SN-506477	c 33	N85-29146 *
US-PATENT-APPL-SN-470113	c 17	N87-16863 *	US-PATENT-APPL-SN-487344	c 15	N69-21472 *	US-PATENT-APPL-SN-506803	c 24	N79-25143 *
US-PATENT-APPL-SN-470114	c 25	N83-24572 *	US-PATENT-APPL-SN-487352	c 14	N71-18699 *	US-PATENT-APPL-SN-506804	c 35	N76-18402 *
US-PATENT-APPL-SN-470428	c 33	N76-16332 *	US-PATENT-APPL-SN-487852	c 23	N76-15268 *	US-PATENT-APPL-SN-506908	c 09	N71-18843 *
US-PATENT-APPL-SN-470429	c 33	N75-31329 *	US-PATENT-APPL-SN-487929	c 33	N74-20859 *	US-PATENT-APPL-SN-507254	c 14	N71-22990 *
US-PATENT-APPL-SN-47061	c 26	N72-25680 *	US-PATENT-APPL-SN-487934	c 15	N71-21530 *	US-PATENT-APPL-SN-507257	c 09	N71-19449 *
US-PATENT-APPL-SN-47062	c 15	N72-17451 *	US-PATENT-APPL-SN-487939	c 14	N71-23040 *	US-PATENT-APPL-SN-507623	c 31	N85-29083 *
US-PATENT-APPL-SN-47063	c 33	N72-25911 *	US-PATENT-APPL-SN-487940	c 10	N71-26434 *	US-PATENT-APPL-SN-507624	c 76	N85-30922 *
US-PATENT-APPL-SN-47063	c 33	N73-25952 *	US-PATENT-APPL-SN-488381	c 14	N73-32321 *	US-PATENT-APPL-SN-507625	c 76	N86-20150 *
US-PATENT-APPL-SN-470902	c 06	N71-28808 *	US-PATENT-APPL-SN-488616	c 07	N76-18117 *	US-PATENT-APPL-SN-507626	c 34	N85-29179 *
US-PATENT-APPL-SN-471154	c 09	N73-28084 *	US-PATENT-APPL-SN-488745	c 26	N75-27127 *	US-PATENT-APPL-SN-508169	c 18	N71-27397 *
US-PATENT-APPL-SN-47120	c 31	N70-33242 *	US-PATENT-APPL-SN-489008	c 23	N75-30256 *	US-PATENT-APPL-SN-508170	c 08	N71-22710 *
US-PATENT-APPL-SN-47121	c 09	N70-39915 *	US-PATENT-APPL-SN-489009	c 33	N76-19339 *	US-PATENT-APPL-SN-508371	c 05	N85-21147 *
US-PATENT-APPL-SN-47122	c 14	N70-34813 *	US-PATENT-APPL-SN-489442	c 25	N69-39884 *	US-PATENT-APPL-SN-508372	c 43	N83-29783 *
US-PATENT-APPL-SN-47123	c 15	N70-34817 *	US-PATENT-APPL-SN-489675	c 05	N85-29947 *	US-PATENT-APPL-SN-508601	c 15	N71-22878 *
US-PATENT-APPL-SN-472066	c 31	N70-42075 *	US-PATENT-APPL-SN-491054	c 14	N71-23174 *	US-PATENT-APPL-SN-508784	c 76	N76-25049 *
US-PATENT-APPL-SN-472372	c 07	N71-20791 *	US-PATENT-APPL-SN-491058	c 09	N71-23443 *	US-PATENT-APPL-SN-508873	c 14	N71-23240 *
US-PATENT-APPL-SN-472643	c 33	N79-21265 *	US-PATENT-APPL-SN-491059	c 09	N71-23015 *	US-PATENT-APPL-SN-509460	c 01	N71-13411 *
US-PATENT-APPL-SN-472747	c 31	N71-16081 *	US-PATENT-APPL-SN-491113	c 35	N86-19581 *	US-PATENT-APPL-SN-510136	c 18	N84-33450 *
US-PATENT-APPL-SN-472775	c 35	N75-33369 *	US-PATENT-APPL-SN-491125	c 27	N84-22750 *	US-PATENT-APPL-SN-510137	c 37	N85-34401 *
US-PATENT-APPL-SN-473498	c 20	N85-21256 *	US-PATENT-APPL-SN-491416	c 35	N75-33368 *	US-PATENT-APPL-SN-510150	c 10	N71-26103 *
US-PATENT-APPL-SN-473499	c 74	N86-21348 *	US-PATENT-APPL-SN-491417	c 37	N76-19437 *	US-PATENT-APPL-SN-510155	c 06	N71-11235 *
US-PATENT-APPL-SN-473535	c 31	N71-15637 *	US-PATENT-APPL-SN-491418	c 31	N76-31365 *	US-PATENT-APPL-SN-510474	c 15	N71-23810 *
US-PATENT-APPL-SN-473537	c 08	N71-15908 *	US-PATENT-APPL-SN-491419	c 32	N76-15330 *	US-PATENT-APPL-SN-510475	c 14	N71-23087 *
US-PATENT-APPL-SN-473827	c 35	N86-32698 *	US-PATENT-APPL-SN-491845	c 28	N71-15659 *	US-PATENT-APPL-SN-510677	c 44	N77-19571 *
US-PATENT-APPL-SN-473973	c 02	N77-10001 *	US-PATENT-APPL-SN-492282	c 27	N85-20124 *	US-PATENT-APPL-SN-511299	c 15	N71-22798 *
US-PATENT-APPL-SN-47440	c 07	N73-20174 *	US-PATENT-APPL-SN-492344	c 05	N71-22896 *	US-PATENT-APPL-SN-511334	c 36	N77-32478 *
US-PATENT-APPL-SN-47441	c 09	N70-34559 *	US-PATENT-APPL-SN-492964	c 25	N85-21280 *	US-PATENT-APPL-SN-511346	c 15	N77-10113 *
US-PATENT-APPL-SN-47443	c 09	N72-17152 *	US-PATENT-APPL-SN-493179	c 23	N85-35227 *	US-PATENT-APPL-SN-511362	c 33	N85-29147 *
US-PATENT-APPL-SN-474531	c 31	N71-23009 *	US-PATENT-APPL-SN-493359	c 20	N76-21275 *	US-PATENT-APPL-SN-511363	c 25	N88-23846 *
US-PATENT-APPL-SN-474744	c 35	N76-14431 *	US-PATENT-APPL-SN-493363	c 33	N76-21390 *	US-PATENT-APPL-SN-5114	c 06	N72-25150 *
US-PATENT-APPL-SN-474745	c 37	N76-14463 *	US-PATENT-APPL-SN-493865	c 24	N86-19380 *	US-PATENT-APPL-SN-511564	c 09	N69-39885 *
US-PATENT-APPL-SN-474815	c 33	N79-21264 *	US-PATENT-APPL-SN-493866	c 71	N84-28568 *	US-PATENT-APPL-SN-511567	c 05	N71-12336 *
US-PATENT-APPL-SN-475299	c 31	N71-17679 *	US-PATENT-APPL-SN-493942	c 14	N71-17659 *	US-PATENT-APPL-SN-511887	c 35	N76-15436 *
US-PATENT-APPL-SN-475336	c 54	N75-27758 *	US-PATENT-APPL-SN-493943	c 15	N71-21529 *	US-PATENT-APPL-SN-511894	c 03	N76-32140 *
US-PATENT-APPL-SN-475337	c 51	N76-29891 *	US-PATENT-APPL-SN-494280	c 28	N71-23081 *	US-PATENT-APPL-SN-512352	c 15	N70-33330 *
US-PATENT-APPL-SN-475338	c 35	N76-15431 *	US-PATENT-APPL-SN-494282	c 15	N69-39735 *	US-PATENT-APPL-SN-512509	c 26	N75-27125 *
US-PATENT-APPL-SN-476244	c 33	N84-22885 *	US-PATENT-APPL-SN-494283	c 31	N71-24035 *	US-PATENT-APPL-SN-512559	c 23	N71-22881 *
US-PATENT-APPL-SN-476759	c 03	N70-42073 *	US-PATENT-APPL-SN-494287	c 03	N71-22974 *	US-PATENT-APPL-SN-512561	c 16	N71-25914 *
US-PATENT-APPL-SN-476761	c 11	N71-10748 *	US-PATENT-APPL-SN-494739	c 07	N71-26291 *	US-PATENT-APPL-SN-512562	c 16	N71-24074 *
US-PATENT-APPL-SN-476763	c 09	N69-21313 *	US-PATENT-APPL-SN-495021	c 44	N78-13526 *	US-PATENT-APPL-SN-512795	c 27	N84-22745 *
US-PATENT-APPL-SN-477333	c 28	N70-41922 *	US-PATENT-APPL-SN-495022	c 60	N77-12721 *	US-PATENT-APPL-SN-512825	c 32	N76-15329 *
US-PATENT-APPL-SN-478129	c 25	N86-27431 *	US-PATENT-APPL-SN-495380	c 37	N85-29285 *	US-PATENT-APPL-SN-51317	c 14	N73-30389 *
US-PATENT-APPL-SN-478130	c 74	N85-23396 *	US-PATENT-APPL-SN-495380	c 37	N87-22976 *	US-PATENT-APPL-SN-513346	c 07	N79-14095 *
US-PATENT-APPL-SN-478131	c 26	N87-14482 *	US-PATENT-APPL-SN-495381	c 24	N84-22695 *	US-PATENT-APPL-SN-513389	c 25	N75-12087 *
US-PATENT-APPL-SN-478491	c 14	N69-21363 *	US-PATENT-APPL-SN-495381	c 24	N85-21267 *	US-PATENT-APPL-SN-513576	c 35	N76-29552 *
US-PATENT-APPL-SN-478800	c 37	N76-19436 *	US-PATENT-APPL-SN-496205	c 14	N71-22965 *	US-PATENT-APPL-SN-513611	c 24	N76-22309 *
US-PATENT-APPL-SN-478802	c 35	N75-29381 *	US-PATENT-APPL-SN-496779	c 05	N76-29217 *	US-PATENT-APPL-SN-513611	c 24	N80-33482 *
US-PATENT-APPL-SN-478803	c 31	N76-14284 *	US-PATENT-APPL-SN-498167	c 03	N71-10608 *	US-PATENT-APPL-SN-513612	c 05	N77-17029 *
US-PATENT-APPL-SN-479353	c 15	N71-23256 *	US-PATENT-APPL-SN-498168	c 28	N71-21822 *	US-PATENT-APPL-SN-513613	c 27	N78-15276 *
US-PATENT-APPL-SN-479357	c 36	N77-19416 *	US-PATENT-APPL-SN-499122	c 15	N71-24164 *	US-PATENT-APPL-SN-513690	c 37	N76-20480 *
US-PATENT-APPL-SN-480210	c 11	N71-21474 *	US-PATENT-APPL-SN-499126	c 23	N86-19376 *	US-PATENT-APPL-SN-514117	c 27	N86-19455 *
US-PATENT-APPL-SN-480211	c 14	N71-26135 *	US-PATENT-APPL-SN-500044	c 35	N85-21597 *	US-PATENT-APPL-SN-514407	c 18	N71-22894 *
US-PATENT-APPL-SN-481020	c 36	N83-29681 *	US-PATENT-APPL-SN-500046	c 31	N87-16918 *	US-PATENT-APPL-SN-514546	c 74	N76-20958 *
US-PATENT-APPL-SN-481086	c 33	N84-33660 *	US-PATENT-APPL-SN-500435	c 14	N71-21082 *	US-PATENT-APPL-SN-51473	c 02	N70-33266 *
US-PATENT-APPL-SN-481106	c 09	N84-34448 *	US-PATENT-APPL-SN-500446	c 10	N71-23029 *	US-PATENT-APPL-SN-51477	c 14	N72-25412 *
US-PATENT-APPL-SN-482104	c 27	N76-22377 *	US-PATENT-APPL-SN-500651	c 07	N85-35195 *	US-PATENT-APPL-SN-515484	c 14	N71-22993 *
US-PATENT-APPL-SN-482105	c 27	N76-23426 *	US-PATENT-APPL-SN-500979	c 32	N76-18295 *	US-PATENT-APPL-SN-516087	c 27	N85-20125 *
US-PATENT-APPL-SN-482307	c 15	N71-21060 *	US-PATENT-APPL-SN-500980	c 72	N76-15860 *	US-PATENT-APPL-SN-516150	c 05	N71-19440 *
US-PATENT-APPL-SN-482311	c 05	N71-22748 *	US-PATENT-APPL-SN-500981	c 35	N77-10492 *	US-PATENT-APPL-SN-516151	c 15	N70-41679 *
US-PATENT-APPL-SN-482313	c 11	N69-24321 *	US-PATENT-APPL-SN-500982	c 75	N76-17951 *	US-PATENT-APPL-SN-516152	c 14	N71-23225 *
US-PATENT-APPL-SN-482670	c 14	N71-21007 *	US-PATENT-APPL-SN-501011	c 33	N76-18345 *	US-PATENT-APPL-SN-516153	c 10	N71-28783 *
US-PATENT-APPL-SN-482952	c 09	N71-28926 *	US-PATENT-APPL-SN-501012	c 33	N76-14373 *	US-PATENT-APPL-SN-516154	c 09	N69-24330 *
US-PATENT-APPL-SN-482953	c 74	N76-18913 *	US-PATENT-APPL-SN-501060	c 60	N84-28491 *	US-PATENT-APPL-SN-516155	c 09	N71-23270 *
US-PATENT-APPL-SN-482967	c 34	N76-18364 *	US-PATENT-APPL-SN-50206	c 07	N72-17109 *	US-PATENT-APPL-SN-516158	c 09	N71-19479 *
US-PATENT-APPL-SN-483301	c 36	N77-26477 *	US-PATENT-APPL-SN-50207	c 07	N72-20141 *	US-PATENT-APPL-SN-516159	c 14	N70-41812 *
US-PATENT-APPL-SN-483817	c 27	N79-21190 *	US-PATENT-APPL-SN-50208	c 14	N73-13418 *	US-PATENT-APPL-SN-516160	c 33	N71-16277 *
US-PATENT-APPL-SN-483850	c 37	N76-14460 *	US-PATENT-APPL-SN-502124	c 35	N76-16393 *	US-PATENT-APPL-SN-516162	c 07	N71-28900 *
US-PATENT-APPL-SN-483851	c 35	N76-15435 *	US-PATENT-APPL-SN-502135	c 35	N76-15433 *	US-PATENT-APPL-SN-516217	c 27	N85-21350 *
US-PATENT-APPL-SN-483852	c 33	N75-30430 *	US-PATENT-APPL-SN-502136	c 35	N75-27331 *	US-PATENT-APPL-SN-516217	c 27	N85-21351 *
US-PATENT-APPL-SN-483857	c 44	N76-14601 *	US-PATENT-APPL-SN-502137	c 37	N76-21554 *	US-PATENT-APPL-SN-516217	c 27	N85-21352 *
US-PATENT-APPL-SN-483858	c 35	N76-18400 *	US-PATENT-APPL-SN-502138	c 43	N77-10584 *	US-PATENT-APPL-SN-516217	c 25	N85-28982 *
US-PATENT-APPL-SN-483885	c 04	N71-23185 *	US-PATENT-APPL-SN-502693	c 15	N71-20739 *	US-PATENT-APPL-SN-516217	c 25	N85-30039 *
US-PATENT-APPL-SN-483886								

US-PATENT-APPL-SN-517156	c 14	N71-23093 *	US-PATENT-APPL-SN-534295	c 15	N71-21076 *	US-PATENT-APPL-SN-551815	c 02	N71-11038 *
US-PATENT-APPL-SN-517157	c 15	N71-22722 *	US-PATENT-APPL-SN-534564	c 10	N71-22961 *	US-PATENT-APPL-SN-551846	c 03	N71-20492 *
US-PATENT-APPL-SN-517158	c 14	N71-23401 *	US-PATENT-APPL-SN-534901	c 14	N70-36807 *	US-PATENT-APPL-SN-551933	c 03	N71-14032 *
US-PATENT-APPL-SN-517159	c 15	N71-20740 *	US-PATENT-APPL-SN-534931	c 37	N80-14395 *	US-PATENT-APPL-SN-551961	c 15	N70-33376 *
US-PATENT-APPL-SN-517858	c 14	N71-21006 *	US-PATENT-APPL-SN-534966	c 15	N71-24042 *	US-PATENT-APPL-SN-552108	c 07	N79-14096 *
US-PATENT-APPL-SN-517869	c 15	N71-23050 *	US-PATENT-APPL-SN-534975	c 14	N71-24232 *	US-PATENT-APPL-SN-552344	c 09	N69-27463 *
US-PATENT-APPL-SN-517995	c 39	N76-31562 *	US-PATENT-APPL-SN-535169	c 54	N78-17678 *	US-PATENT-APPL-SN-552454	c 35	N76-24525 *
US-PATENT-APPL-SN-518487	c 05	N71-11190 *	US-PATENT-APPL-SN-535304	c 09	N71-28810 *	US-PATENT-APPL-SN-553339	c 27	N86-20560 *
US-PATENT-APPL-SN-518544	c 44	N76-24696 *	US-PATENT-APPL-SN-535410	c 37	N76-15457 *	US-PATENT-APPL-SN-553339	c 27	N87-22845 *
US-PATENT-APPL-SN-518545	c 19	N76-22284 *	US-PATENT-APPL-SN-536210	c 17	N71-24830 *	US-PATENT-APPL-SN-553333	c 10	N73-16206 *
US-PATENT-APPL-SN-518546	c 26	N76-18257 *	US-PATENT-APPL-SN-536216	c 10	N71-23315 *	US-PATENT-APPL-SN-553687	c 44	N76-29704 *
US-PATENT-APPL-SN-518684	c 44	N76-22657 *	US-PATENT-APPL-SN-536217	c 10	N71-23544 *	US-PATENT-APPL-SN-553891	c 23	N71-16341 *
US-PATENT-APPL-SN-518685	c 35	N76-14429 *	US-PATENT-APPL-SN-536535	c 33	N76-14371 *	US-PATENT-APPL-SN-554277	c 07	N71-26579 *
US-PATENT-APPL-SN-519160	c 18	N71-20742 *	US-PATENT-APPL-SN-536761	c 33	N76-19338 *	US-PATENT-APPL-SN-554897	c 15	N71-22982 *
US-PATENT-APPL-SN-519161	c 05	N71-20718 *	US-PATENT-APPL-SN-536762	c 37	N76-22540 *	US-PATENT-APPL-SN-554899	c 15	N70-33382 *
US-PATENT-APPL-SN-519395	c 09	N69-24317 *	US-PATENT-APPL-SN-536765	c 33	N76-31409 *	US-PATENT-APPL-SN-554949	c 06	N71-20717 *
US-PATENT-APPL-SN-520838	c 08	N71-18595 *	US-PATENT-APPL-SN-536786	c 44	N77-32581 *	US-PATENT-APPL-SN-554950	c 17	N71-23248 *
US-PATENT-APPL-SN-520839	c 10	N71-19472 *	US-PATENT-APPL-SN-537024	c 44	N76-27664 *	US-PATENT-APPL-SN-554959	c 27	N79-21191 *
US-PATENT-APPL-SN-521006	c 34	N77-10463 *	US-PATENT-APPL-SN-537480	c 45	N76-31714 *	US-PATENT-APPL-SN-555189	c 08	N71-27255 *
US-PATENT-APPL-SN-521601	c 60	N76-14818 *	US-PATENT-APPL-SN-537614	c 33	N86-20672 *	US-PATENT-APPL-SN-555336	c 33	N76-27473 *
US-PATENT-APPL-SN-521602	c 37	N76-18454 *	US-PATENT-APPL-SN-537615	c 28	N71-22983 *	US-PATENT-APPL-SN-555334	c 11	N72-25288 *
US-PATENT-APPL-SN-521603	c 35	N75-29380 *	US-PATENT-APPL-SN-537615	c 37	N85-33489 *	US-PATENT-APPL-SN-555353	c 14	N73-20474 *
US-PATENT-APPL-SN-521620	c 09	N77-10071 *	US-PATENT-APPL-SN-537616	c 26	N85-29005 *	US-PATENT-APPL-SN-555356	c 14	N72-29464 *
US-PATENT-APPL-SN-521753	c 15	N70-41960 *	US-PATENT-APPL-SN-537617	c 09	N71-22987 *	US-PATENT-APPL-SN-555357	c 18	N72-25540 *
US-PATENT-APPL-SN-521754	c 07	N71-22984 *	US-PATENT-APPL-SN-537757	c 37	N86-20789 *	US-PATENT-APPL-SN-555641	c 51	N76-29891 *
US-PATENT-APPL-SN-521755	c 28	N71-28849 *	US-PATENT-APPL-SN-537979	c 37	N77-11397 *	US-PATENT-APPL-SN-555750	c 27	N79-12221 *
US-PATENT-APPL-SN-521816	c 35	N77-19385 *	US-PATENT-APPL-SN-538047	c 37	N76-27568 *	US-PATENT-APPL-SN-556481	c 74	N86-26190 *
US-PATENT-APPL-SN-521817	c 45	N76-21742 *	US-PATENT-APPL-SN-538063	c 37	N86-19603 *	US-PATENT-APPL-SN-556512	c 37	N86-25789 *
US-PATENT-APPL-SN-521994	c 17	N71-23365 *	US-PATENT-APPL-SN-538166	c 15	N71-21177 *	US-PATENT-APPL-SN-556513	c 33	N85-29143 *
US-PATENT-APPL-SN-521996	c 15	N69-27871 *	US-PATENT-APPL-SN-538168	c 23	N71-16098 *	US-PATENT-APPL-SN-556514	c 35	N86-25753 *
US-PATENT-APPL-SN-521998	c 07	N69-24323 *	US-PATENT-APPL-SN-538863	c 54	N78-17680 *	US-PATENT-APPL-SN-556784	c 09	N71-20447 *
US-PATENT-APPL-SN-521999	c 12	N71-20815 *	US-PATENT-APPL-SN-538905	c 08	N71-18594 *	US-PATENT-APPL-SN-556830	c 15	N71-26294 *
US-PATENT-APPL-SN-522109	c 07	N78-17056 *	US-PATENT-APPL-SN-538907	c 33	N71-28903 *	US-PATENT-APPL-SN-557016	c 15	N71-23086 *
US-PATENT-APPL-SN-522551	c 76	N76-20994 *	US-PATENT-APPL-SN-538908	c 33	N71-22890 *	US-PATENT-APPL-SN-557430	c 52	N77-14737 *
US-PATENT-APPL-SN-522552	c 35	N76-16390 *	US-PATENT-APPL-SN-538911	c 33	N71-22792 *	US-PATENT-APPL-SN-557448	c 45	N76-17656 *
US-PATENT-APPL-SN-522556	c 35	N76-15432 *	US-PATENT-APPL-SN-538913	c 14	N71-17627 *	US-PATENT-APPL-SN-557565	c 24	N77-27187 *
US-PATENT-APPL-SN-5226628	c 08	N85-19985 *	US-PATENT-APPL-SN-538982	c 33	N77-14333 *	US-PATENT-APPL-SN-557584	c 09	N71-20851 *
US-PATENT-APPL-SN-522794	c 09	N71-23190 *	US-PATENT-APPL-SN-538983	c 33	N76-18353 *	US-PATENT-APPL-SN-557861	c 03	N71-24605 *
US-PATENT-APPL-SN-522795	c 20	N71-16281 *	US-PATENT-APPL-SN-539230	c 37	N85-30335 *	US-PATENT-APPL-SN-557868	c 14	N70-41682 *
US-PATENT-APPL-SN-522971	c 54	N76-24900 *	US-PATENT-APPL-SN-539237	c 33	N71-16278 *	US-PATENT-APPL-SN-557871	c 10	N71-21483 *
US-PATENT-APPL-SN-523297	c 24	N85-21266 *	US-PATENT-APPL-SN-539255	c 18	N71-26153 *	US-PATENT-APPL-SN-55806	c 06	N72-31140 *
US-PATENT-APPL-SN-523297	c 24	N85-35233 *	US-PATENT-APPL-SN-539255	c 17	N72-28536 *	US-PATENT-APPL-SN-558060	c 74	N77-10899 *
US-PATENT-APPL-SN-523511	c 28	N71-20942 *	US-PATENT-APPL-SN-5400414	c 15	N71-22799 *	US-PATENT-APPL-SN-559055	c 33	N71-29046 *
US-PATENT-APPL-SN-523559	c 74	N85-29750 *	US-PATENT-APPL-SN-540779	c 33	N79-12331 *	US-PATENT-APPL-SN-559349	c 33	N71-24145 *
US-PATENT-APPL-SN-523560	c 60	N86-21154 *	US-PATENT-APPL-SN-541399	c 14	N71-20428 *	US-PATENT-APPL-SN-559350	c 33	N71-28892 *
US-PATENT-APPL-SN-523632	c 33	N78-17293 *	US-PATENT-APPL-SN-541526	c 33	N87-14594 *	US-PATENT-APPL-SN-559351	c 14	N69-39785 *
US-PATENT-APPL-SN-523991	c 35	N86-20751 *	US-PATENT-APPL-SN-542157	c 20	N76-21276 *	US-PATENT-APPL-SN-559845	c 35	N76-29551 *
US-PATENT-APPL-SN-524746	c 14	N73-28491 *	US-PATENT-APPL-SN-542192	c 26	N75-27126 *	US-PATENT-APPL-SN-559846	c 34	N79-13289 *
US-PATENT-APPL-SN-526438	c 25	N76-22323 *	US-PATENT-APPL-SN-542232	c 33	N86-19516 *	US-PATENT-APPL-SN-559846	c 34	N80-24573 *
US-PATENT-APPL-SN-526448	c 44	N76-14602 *	US-PATENT-APPL-SN-542557	c 44	N85-30474 *	US-PATENT-APPL-SN-559847	c 34	N79-13288 *
US-PATENT-APPL-SN-526449	c 54	N76-14804 *	US-PATENT-APPL-SN-542700	c 07	N72-25173 *	US-PATENT-APPL-SN-559988	c 71	N85-29693 *
US-PATENT-APPL-SN-526450	c 35	N77-14409 *	US-PATENT-APPL-SN-542713	c 23	N71-23976 *	US-PATENT-APPL-SN-560035	c 24	N85-30027 *
US-PATENT-APPL-SN-526631	c 10	N71-19471 *	US-PATENT-APPL-SN-542721	c 02	N73-19004 *	US-PATENT-APPL-SN-560081	c 73	N88-19920 *
US-PATENT-APPL-SN-526664	c 07	N69-24334 *	US-PATENT-APPL-SN-542754	c 34	N76-18374 *	US-PATENT-APPL-SN-560097	c 15	N69-21922 *
US-PATENT-APPL-SN-526665	c 14	N69-24331 *	US-PATENT-APPL-SN-543206	c 05	N71-23159 *	US-PATENT-APPL-SN-560098	c 10	N71-24863 *
US-PATENT-APPL-SN-526739	c 37	N87-23970 *	US-PATENT-APPL-SN-543774	c 06	N69-39733 *	US-PATENT-APPL-SN-560969	c 14	N71-15622 *
US-PATENT-APPL-SN-526741	c 09	N84-12193 *	US-PATENT-APPL-SN-544611	c 33	N76-15373 *	US-PATENT-APPL-SN-561020	c 44	N76-23675 *
US-PATENT-APPL-SN-526750	c 71	N85-22105 *	US-PATENT-APPL-SN-544895	c 07	N71-28809 *	US-PATENT-APPL-SN-561223	c 14	N71-20427 *
US-PATENT-APPL-SN-526768	c 25	N85-35253 *	US-PATENT-APPL-SN-544899	c 09	N71-20569 *	US-PATENT-APPL-SN-561369	c 35	N84-33766 *
US-PATENT-APPL-SN-526770	c 35	N85-21598 *	US-PATENT-APPL-SN-545223	c 03	N71-11056 *	US-PATENT-APPL-SN-561429	c 27	N85-21351 *
US-PATENT-APPL-SN-526773	c 17	N73-28573 *	US-PATENT-APPL-SN-545224	c 15	N69-21362 *	US-PATENT-APPL-SN-561431	c 27	N85-21350 *
US-PATENT-APPL-SN-527613	c 37	N86-19604 *	US-PATENT-APPL-SN-545228	c 07	N69-39736 *	US-PATENT-APPL-SN-561432	c 20	N86-26368 *
US-PATENT-APPL-SN-527727	c 02	N76-16014 *	US-PATENT-APPL-SN-545229	c 03	N69-21469 *	US-PATENT-APPL-SN-561433	c 35	N86-20752 *
US-PATENT-APPL-SN-527728	c 37	N76-18458 *	US-PATENT-APPL-SN-545282	c 35	N76-24524 *	US-PATENT-APPL-SN-561434	c 25	N85-30039 *
US-PATENT-APPL-SN-527790	c 33	N76-14372 *	US-PATENT-APPL-SN-545283	c 32	N77-22399 *	US-PATENT-APPL-SN-561435	c 27	N85-21352 *
US-PATENT-APPL-SN-527914	c 27	N86-21675 *	US-PATENT-APPL-SN-545284	c 34	N76-27517 *	US-PATENT-APPL-SN-561764	c 32	N77-10392 *
US-PATENT-APPL-SN-527918	c 09	N85-21178 *	US-PATENT-APPL-SN-54540	c 15	N72-29488 *	US-PATENT-APPL-SN-561956	c 35	N77-17426 *
US-PATENT-APPL-SN-528031	c 10	N69-39888 *	US-PATENT-APPL-SN-545400	c 37	N74-15125 *	US-PATENT-APPL-SN-562443	c 09	N69-39734 *
US-PATENT-APPL-SN-529593	c 27	N71-21819 *	US-PATENT-APPL-SN-545552	c 27	N70-34783 *	US-PATENT-APPL-SN-562444	c 14	N71-22995 *
US-PATENT-APPL-SN-529594	c 15	N69-27483 *	US-PATENT-APPL-SN-545552	c 20	N77-17143 *	US-PATENT-APPL-SN-562445	c 14	N71-23977 *
US-PATENT-APPL-SN-529594	c 33	N71-29152 *	US-PATENT-APPL-SN-545535	c 03	N69-21539 *	US-PATENT-APPL-SN-562499	c 32	N77-31350 *
US-PATENT-APPL-SN-529609	c 09	N69-39986 *	US-PATENT-APPL-SN-545793	c 20	N80-14188 *	US-PATENT-APPL-SN-562558	c 31	N79-21227 *
US-PATENT-APPL-SN-529803	c 33	N86-20668 *	US-PATENT-APPL-SN-545805	c 15	N71-21744 *	US-PATENT-APPL-SN-562933	c 10	N71-24799 *
US-PATENT-APPL-SN-529884	c 54	N78-18761 *	US-PATENT-APPL-SN-546142	c 09	N69-24329 *	US-PATENT-APPL-SN-562934	c 09	N69-21468 *
US-PATENT-APPL-SN-530185	c 32	N86-20647 *	US-PATENT-APPL-SN-546148	c 11	N71-22875 *	US-PATENT-APPL-SN-562992	c 27	N78-32261 *
US-PATENT-APPL-SN-530339	c 31	N86-19479 *	US-PATENT-APPL-SN-546149	c 16	N71-24170 *	US-PATENT-APPL-SN-563049	c 17	N76-29347 *
US-PATENT-APPL-SN-530958	c 09	N71-22985 *	US-PATENT-APPL-SN-547072	c 15	N71-24043 *	US-PATENT-APPL-SN-563050	c 37	N76-31524 *
US-PATENT-APPL-SN-531565	c 36	N76-24553 *	US-PATENT-APPL-SN-547072	c 35	N78-32397 *	US-PATENT-APPL-SN-563283	c 35	N76-18401 *
US-PATENT-APPL-SN-531566	c 10	N71-28860 *	US-PATENT-APPL-SN-547175	c 76	N84-12968 *	US-PATENT-APPL-SN-563644	c 15	N71-18613 *
US-PATENT-APPL-SN-531572	c 66	N76-19888 *	US-PATENT-APPL-SN-547176	c 37	N85-29286 *	US-PATENT-APPL-SN-563646	c 05	N71-23096 *
US-PATENT-APPL-SN-531575	c 32	N76-31372 *	US-PATENT-APPL-SN-547643	c 33	N79-33392 *	US-PATENT-APPL-SN-563648	c 15	N71-17803 *
US-PATENT-APPL-SN-531642	c 25	N71-21693 *	US-PATENT-APPL-SN-547677	c 10	N71-20448 *	US-PATENT-APPL-SN-563650	c 25	N69-21299 *
US-PATENT-APPL-SN-531647	c 04	N76-20114 *	US-PATENT-APPL-SN-548468	c 37	N76-27567 *	US-PATENT-APPL-SN-563651	c 28	N71-23293 *
US-PATENT-APPL-SN-531647	c 04	N77-19056 *	US-PATENT-APPL-SN-548559	c 44	N76-29700 *	US-PATENT-APPL-SN-563890	c 35	N85-34373 *
US-PATENT-APPL-SN-532006	c 23	N71-24857 *	US-PATENT-APPL-SN-548582	c 39	N86-20841 *	US-PATENT-APPL-SN-564622	c 37	N77-31497 *
US-PATENT-APPL-SN-532342	c 08	N85-35200 *	US-PATENT-APPL-SN-548583	c 27	N85-34282 *	US-PATENT-APPL-SN-564919	c 09	N71-23316 *
US-PATENT-APPL-SN-532784	c 27	N75-29263 *	US-PATENT-APPL-SN-548584	c 24	N84-34571 *	US-PATENT-APPL-SN-565162	c 35	N79-14348 *
US-PATENT-APPL-SN-532784	c 27	N78-17205 *	US-PATENT-APPL-SN-548808	c 14	N71-23227 *	US-PATENT-APPL-SN-565289	c 38	N77-17495 *
US-PATENT-APPL-SN-533555	c 36	N76-18428 *	US-PATENT-APPL-SN-549418	c 36	N76-31512 *	US-PATENT-APPL-SN-565290	c 17	N76-22245 *
US-PATENT-APPL-SN-533556	c 36	N76-29575 *	US-PATENT-APPL-SN-549860	c 03	N71-19438 *	US-PATENT-APPL-SN-565481	c 09	N86-32447 *
US-PATENT-APPL-SN-533608	c 32	N76-21366 *	US-PATENT-APPL-SN-550088	c 07	N71-24612 *	US-PATENT-APPL-SN-566392	c 14	N71-23175 *
US-PATENT-APPL-SN-533650	c 35	N75-27329 *	US-PATENT-APPL-SN-550681	c 02	N87-16793 *	US-PATENT-APPL-SN-566397	c 05	N71-23161 *
US-PATENT-APPL-SN-533659	c 14	N73-30390 *	US-PATENT-APPL-SN-551182	c 03	N71-23187 *	US-PATENT-APPL-SN-566493	c 44	N76-29701 *

US-PATENT-APPL-SN-567686	c 15	N71-22994 *	US-PATENT-APPL-SN-581750	c 07	N78-17055 *	US-PATENT-APPL-SN-596960	c 37	N85-33490 *
US-PATENT-APPL-SN-567806	c 06	N71-22975 *	US-PATENT-APPL-SN-581751	c 37	N78-10468 *	US-PATENT-APPL-SN-597430	c 44	N81-29525 *
US-PATENT-APPL-SN-56791	c 10	N72-16172 *	US-PATENT-APPL-SN-581843	c 31	N79-21226 *	US-PATENT-APPL-SN-597430	c 44	N82-28780 *
US-PATENT-APPL-SN-568067	c 31	N71-22968 *	US-PATENT-APPL-SN-582171	c 32	N71-16428 *	US-PATENT-APPL-SN-598118	c 15	N69-27490 #
US-PATENT-APPL-SN-568071	c 14	N69-27461 #	US-PATENT-APPL-SN-582213	c 32	N74-22096 *	US-PATENT-APPL-SN-598119	c 08	N71-19437 *
US-PATENT-APPL-SN-568160	c 10	N71-18724 *	US-PATENT-APPL-SN-582318	c 33	N76-27472 *	US-PATENT-APPL-SN-598120	c 08	N71-18602 *
US-PATENT-APPL-SN-568346	c 04	N69-27487 #	US-PATENT-APPL-SN-582492	c 52	N85-30618 *	US-PATENT-APPL-SN-598504	c 37	N77-14477 *
US-PATENT-APPL-SN-568352	c 09	N71-20842 *	US-PATENT-APPL-SN-582494	c 36	N84-25037 #	US-PATENT-APPL-SN-598777	c 27	N85-34281 *
US-PATENT-APPL-SN-568354	c 14	N71-22752 *	US-PATENT-APPL-SN-582495	c 44	N86-27706 *	US-PATENT-APPL-SN-598992	c 06	N73-30097 *
US-PATENT-APPL-SN-568355	c 32	N71-23971 *	US-PATENT-APPL-SN-582609	c 10	N71-19467 *	US-PATENT-APPL-SN-598992	c 15	N74-25595 *
US-PATENT-APPL-SN-568356	c 14	N71-15509 *	US-PATENT-APPL-SN-582643	c 35	N85-34374 *	US-PATENT-APPL-SN-598993	c 15	N72-25456 *
US-PATENT-APPL-SN-568362	c 03	N69-39983 #	US-PATENT-APPL-SN-583055	c 07	N78-18067 *	US-PATENT-APPL-SN-598994	c 23	N73-13662 *
US-PATENT-APPL-SN-568364	c 10	N71-26418 *	US-PATENT-APPL-SN-583056	c 37	N78-17384 *	US-PATENT-APPL-SN-598995	c 15	N72-20445 *
US-PATENT-APPL-SN-568541	c 24	N77-28225 *	US-PATENT-APPL-SN-583219	c 43	N82-13465 *	US-PATENT-APPL-SN-598997	c 31	N77-10229 *
US-PATENT-APPL-SN-568541	c 27	N81-14077 *	US-PATENT-APPL-SN-583485	c 33	N77-28385 *	US-PATENT-APPL-SN-598998	c 33	N77-17354 *
US-PATENT-APPL-SN-568620	c 10	N71-26626 *	US-PATENT-APPL-SN-583486	c 33	N77-26386 *	US-PATENT-APPL-SN-598999	c 44	N78-17460 *
US-PATENT-APPL-SN-568987	c 10	N71-19547 *	US-PATENT-APPL-SN-583487	c 52	N76-19785 *	US-PATENT-APPL-SN-599126	c 23	N88-24692 *
US-PATENT-APPL-SN-569370	c 43	N84-23012 #	US-PATENT-APPL-SN-584015	c 14	N71-26475 *	US-PATENT-APPL-SN-599284	c 35	N77-14411 *
US-PATENT-APPL-SN-569372	c 76	N85-33826 *	US-PATENT-APPL-SN-584066	c 10	N71-20852 *	US-PATENT-APPL-SN-599556	c 14	N72-27411 *
US-PATENT-APPL-SN-569925	c 07	N77-17059 *	US-PATENT-APPL-SN-584067	c 07	N71-12392 *	US-PATENT-APPL-SN-599666	c 21	N73-32528 *
US-PATENT-APPL-SN-570093	c 06	N71-17705 *	US-PATENT-APPL-SN-584070	c 09	N69-27500 #	US-PATENT-APPL-SN-599668	c 15	N72-27484 *
US-PATENT-APPL-SN-570095	c 14	N71-23226 *	US-PATENT-APPL-SN-584071	c 26	N71-16037 *	US-PATENT-APPL-SN-599669	c 09	N72-25249 *
US-PATENT-APPL-SN-570097	c 15	N69-23185 #	US-PATENT-APPL-SN-584072	c 15	N69-39786 #	US-PATENT-APPL-SN-599975	c 08	N69-21928 #
US-PATENT-APPL-SN-570678	c 17	N71-25903 *	US-PATENT-APPL-SN-584094	c 26	N77-20201 *	US-PATENT-APPL-SN-600266	c 14	N71-20430 *
US-PATENT-APPL-SN-571458	c 44	N71-10635 *	US-PATENT-APPL-SN-584914	c 54	N78-17679 *	US-PATENT-APPL-SN-600682	c 14	N71-20461 *
US-PATENT-APPL-SN-571459	c 54	N78-14784 *	US-PATENT-APPL-SN-585217	c 54	N78-17677 *	US-PATENT-APPL-SN-601130	c 31	N86-21718 *
US-PATENT-APPL-SN-571613	c 74	N86-20124 *	US-PATENT-APPL-SN-585420	c 35	N76-31489 *	US-PATENT-APPL-SN-601228	c 15	N71-17652 *
US-PATENT-APPL-SN-571614	c 35	N86-20750 *	US-PATENT-APPL-SN-585988	c 33	N75-29318 *	US-PATENT-APPL-SN-601229	c 14	N71-26474 *
US-PATENT-APPL-SN-571615	c 74	N87-14971 *	US-PATENT-APPL-SN-586324	c 05	N71-26293 *	US-PATENT-APPL-SN-602049	c 35	N86-32697 *
US-PATENT-APPL-SN-571616	c 25	N86-19413 *	US-PATENT-APPL-SN-586325	c 31	N71-24315 *	US-PATENT-APPL-SN-602617	c 37	N77-23483 *
US-PATENT-APPL-SN-571617	c 26	N85-35267 *	US-PATENT-APPL-SN-586329	c 05	N71-24623 *	US-PATENT-APPL-SN-602618	c 44	N76-31667 *
US-PATENT-APPL-SN-571821	c 20	N76-22296 *	US-PATENT-APPL-SN-586330	c 05	N71-12344 *	US-PATENT-APPL-SN-602676	c 22	N73-32528 *
US-PATENT-APPL-SN-57252	c 14	N72-25414 *	US-PATENT-APPL-SN-587749	c 60	N88-29310 *	US-PATENT-APPL-SN-602828	c 09	N71-13531 *
US-PATENT-APPL-SN-57253	c 18	N72-25541 *	US-PATENT-APPL-SN-587764	c 18	N86-24729 *	US-PATENT-APPL-SN-603374	c 37	N86-19606 *
US-PATENT-APPL-SN-572990	c 37	N78-16369 *	US-PATENT-APPL-SN-588036	c 18	N84-22612 #	US-PATENT-APPL-SN-603396	c 14	N69-23191 #
US-PATENT-APPL-SN-572991	c 51	N77-22794 *	US-PATENT-APPL-SN-588039	c 18	N87-14373 *	US-PATENT-APPL-SN-603397	c 26	N71-23292 *
US-PATENT-APPL-SN-573029	c 07	N79-14097 *	US-PATENT-APPL-SN-588164	c 31	N85-29082 *	US-PATENT-APPL-SN-604337	c 27	N85-29044 *
US-PATENT-APPL-SN-573162	c 37	N86-27630 *	US-PATENT-APPL-SN-588635	c 21	N71-15642 *	US-PATENT-APPL-SN-604374	c 44	N76-29699 *
US-PATENT-APPL-SN-573432	c 14	N71-23790 *	US-PATENT-APPL-SN-588651	c 31	N71-24813 *	US-PATENT-APPL-SN-605090	c 15	N71-19485 *
US-PATENT-APPL-SN-57399	c 03	N72-20034 *	US-PATENT-APPL-SN-588671	c 03	N71-23354 *	US-PATENT-APPL-SN-605091	c 15	N71-26346 *
US-PATENT-APPL-SN-574208	c 37	N76-29590 *	US-PATENT-APPL-SN-588721	c 27	N78-33228 *	US-PATENT-APPL-SN-605092	c 05	N71-23317 *
US-PATENT-APPL-SN-574218	c 52	N76-29895 *	US-PATENT-APPL-SN-589119	c 32	N77-23242 *	US-PATENT-APPL-SN-605093	c 17	N71-24911 *
US-PATENT-APPL-SN-574219	c 35	N76-31490 *	US-PATENT-APPL-SN-589172	c 27	N79-14214 *	US-PATENT-APPL-SN-605094	c 09	N71-24808 *
US-PATENT-APPL-SN-574280	c 15	N69-21460 #	US-PATENT-APPL-SN-589173	c 32	N77-12240 *	US-PATENT-APPL-SN-605095	c 10	N71-19417 *
US-PATENT-APPL-SN-574282	c 15	N69-23190 #	US-PATENT-APPL-SN-589233	c 33	N77-14335 *	US-PATENT-APPL-SN-605096	c 15	N71-24834 *
US-PATENT-APPL-SN-574282	c 15	N71-23025 *	US-PATENT-APPL-SN-590141	c 03	N69-24267 #	US-PATENT-APPL-SN-605097	c 14	N69-21923 #
US-PATENT-APPL-SN-574283	c 14	N69-24257 #	US-PATENT-APPL-SN-590144	c 15	N71-15606 *	US-PATENT-APPL-SN-605098	c 09	N71-26092 *
US-PATENT-APPL-SN-574284	c 08	N71-19763 *	US-PATENT-APPL-SN-590145	c 07	N69-39980 #	US-PATENT-APPL-SN-605099	c 09	N71-23548 *
US-PATENT-APPL-SN-574290	c 14	N71-20439 *	US-PATENT-APPL-SN-590146	c 09	N69-21926 #	US-PATENT-APPL-SN-605100	c 15	N71-21536 *
US-PATENT-APPL-SN-575291	c 33	N71-29151 *	US-PATENT-APPL-SN-590147	c 15	N71-21489 *	US-PATENT-APPL-SN-605102	c 09	N69-39987 #
US-PATENT-APPL-SN-575475	c 05	N69-23192 #	US-PATENT-APPL-SN-590158	c 05	N71-24147 *	US-PATENT-APPL-SN-60531	c 28	N70-37980 *
US-PATENT-APPL-SN-575930	c 06	N71-23230 *	US-PATENT-APPL-SN-590159	c 09	N69-24324 #	US-PATENT-APPL-SN-60536	c 02	N70-38009 *
US-PATENT-APPL-SN-576182	c 33	N71-24276 *	US-PATENT-APPL-SN-590182	c 37	N76-29588 *	US-PATENT-APPL-SN-605518	c 15	N71-23023 *
US-PATENT-APPL-SN-576183	c 09	N71-23525 *	US-PATENT-APPL-SN-590183	c 74	N79-13855 *	US-PATENT-APPL-SN-605564	c 06	N73-30103 *
US-PATENT-APPL-SN-576195	c 14	N71-21079 *	US-PATENT-APPL-SN-590921	c 71	N86-21276 *	US-PATENT-APPL-SN-605594	c 06	N73-30101 *
US-PATENT-APPL-SN-576308	c 07	N85-35194 *	US-PATENT-APPL-SN-590923	c 35	N85-34375 *	US-PATENT-APPL-SN-606027	c 06	N73-30099 *
US-PATENT-APPL-SN-576488	c 44	N76-28635 *	US-PATENT-APPL-SN-590925	c 26	N86-32550 *	US-PATENT-APPL-SN-606036	c 06	N73-30100 *
US-PATENT-APPL-SN-576521	c 09	N71-20864 *	US-PATENT-APPL-SN-590975	c 44	N78-31525 *	US-PATENT-APPL-SN-606426	c 74	N86-29650 #
US-PATENT-APPL-SN-576774	c 60	N77-19760 *	US-PATENT-APPL-SN-591000	c 15	N71-24044 *	US-PATENT-APPL-SN-606431	c 37	N86-25791 *
US-PATENT-APPL-SN-576792	c 14	N71-26136 *	US-PATENT-APPL-SN-591004	c 07	N71-11266 *	US-PATENT-APPL-SN-606432	c 74	N87-21679 *
US-PATENT-APPL-SN-576797	c 09	N69-24318 #	US-PATENT-APPL-SN-591007	c 16	N69-27491 #	US-PATENT-APPL-SN-606462	c 08	N71-24891 *
US-PATENT-APPL-SN-577114	c 15	N69-24320 #	US-PATENT-APPL-SN-591014	c 28	N71-24736 *	US-PATENT-APPL-SN-606463	c 14	N71-24864 *
US-PATENT-APPL-SN-577115	c 15	N71-17647 *	US-PATENT-APPL-SN-591089	c 24	N85-21267 *	US-PATENT-APPL-SN-606464	c 15	N71-18579 *
US-PATENT-APPL-SN-577545	c 08	N71-18693 *	US-PATENT-APPL-SN-591568	c 74	N76-31998 *	US-PATENT-APPL-SN-606891	c 44	N77-14581 *
US-PATENT-APPL-SN-577546	c 31	N71-23008 *	US-PATENT-APPL-SN-591569	c 37	N77-12402 *	US-PATENT-APPL-SN-607461	c 05	N71-12346 *
US-PATENT-APPL-SN-577548	c 09	N69-27422 #	US-PATENT-APPL-SN-591930	c 03	N69-21330 #	US-PATENT-APPL-SN-607484	c 09	N71-26002 *
US-PATENT-APPL-SN-577548	c 14	N72-28438 *	US-PATENT-APPL-SN-592159	c 07	N76-27232 *	US-PATENT-APPL-SN-607608	c 14	N69-27484 #
US-PATENT-APPL-SN-577549	c 15	N71-22721 *	US-PATENT-APPL-SN-592680	c 15	N71-22877 *	US-PATENT-APPL-SN-607969	c 09	N76-23273 *
US-PATENT-APPL-SN-577775	c 14	N71-17574 *	US-PATENT-APPL-SN-592694	c 05	N71-12342 *	US-PATENT-APPL-SN-608247	c 15	N71-20813 *
US-PATENT-APPL-SN-577778	c 03	N71-11050 *	US-PATENT-APPL-SN-593142	c 37	N77-17464 *	US-PATENT-APPL-SN-608482	c 74	N77-20882 *
US-PATENT-APPL-SN-578240	c 34	N77-18382 *	US-PATENT-APPL-SN-593593	c 06	N71-11239 *	US-PATENT-APPL-SN-608483	c 09	N77-19076 *
US-PATENT-APPL-SN-578241	c 52	N76-29896 *	US-PATENT-APPL-SN-593594	c 06	N71-11236 *	US-PATENT-APPL-SN-608741	c 23	N85-28973 *
US-PATENT-APPL-SN-578387	c 06	N87-22678 *	US-PATENT-APPL-SN-593595	c 06	N71-24740 *	US-PATENT-APPL-SN-608786	c 15	N72-27485 *
US-PATENT-APPL-SN-578388	c 06	N86-27270 *	US-PATENT-APPL-SN-593604	c 11	N69-27466 #	US-PATENT-APPL-SN-608881	c 32	N72-25877 *
US-PATENT-APPL-SN-578390	c 44	N85-30475 *	US-PATENT-APPL-SN-593605	c 06	N71-11242 *	US-PATENT-APPL-SN-608882	c 05	N73-32011 *
US-PATENT-APPL-SN-578397	c 20	N79-21124 *	US-PATENT-APPL-SN-593606	c 06	N71-11243 *	US-PATENT-APPL-SN-608883	c 10	N73-13235 *
US-PATENT-APPL-SN-578700	c 43	N82-13465 *	US-PATENT-APPL-SN-593607	c 07	N71-26102 *	US-PATENT-APPL-SN-608944	c 15	N71-23798 *
US-PATENT-APPL-SN-578916	c 14	N71-23036 *	US-PATENT-APPL-SN-594134	c 74	N86-20125 *	US-PATENT-APPL-SN-60950	c 04	N73-27052 *
US-PATENT-APPL-SN-578923	c 15	N71-21403 *	US-PATENT-APPL-SN-594584	c 14	N71-25892 *	US-PATENT-APPL-SN-610723	c 14	N71-23755 *
US-PATENT-APPL-SN-578925	c 23	N71-16355 *	US-PATENT-APPL-SN-594587	c 28	N71-21493 *	US-PATENT-APPL-SN-610724	c 31	N71-28851 *
US-PATENT-APPL-SN-578926	c 06	N69-39936 #	US-PATENT-APPL-SN-594633	c 15	N71-24046 *	US-PATENT-APPL-SN-610728	c 31	N71-22969 *
US-PATENT-APPL-SN-578928	c 26	N71-21824 *	US-PATENT-APPL-SN-595197	c 33	N77-10429 *	US-PATENT-APPL-SN-610801	c 76	N77-32919 *
US-PATENT-APPL-SN-578931	c 23	N71-21882 *	US-PATENT-APPL-SN-595254	c 17	N78-17140 *	US-PATENT-APPL-SN-610802	c 35	N77-20400 *
US-PATENT-APPL-SN-578932	c 08	N71-12505 *	US-PATENT-APPL-SN-595745	c 37	N77-32501 *	US-PATENT-APPL-SN-611414	c 46	N74-23068 *
US-PATENT-APPL-SN-579121	c 15	N71-29136 *	US-PATENT-APPL-SN-595747	c 37	N77-32500 *	US-PATENT-APPL-SN-611414	c 46	N74-23069 *
US-PATENT-APPL-SN-579300	c 20	N79-21123 *	US-PATENT-APPL-SN-596338	c 09	N71-20816 *	US-PATENT-APPL-SN-612265	c 14	N72-22442 *
US-PATENT-APPL-SN-579375	c 07	N77-14025 *	US-PATENT-APPL-SN-596641	c 07	N77-23106 *	US-PATENT-APPL-SN-612568	c 15	N71-28952 *
US-PATENT-APPL-SN-579376	c 20	N79-21125 *	US-PATENT-APPL-SN-596641	c 37	N78-10467 *	US-PATENT-APPL-SN-612740	c 25	N71-20563 *
US-PATENT-APPL-SN-579989	c 34	N77-32413 *	US-PATENT-APPL-SN-596733	c 15	N72-11389 *	US-PATENT-APPL-SN-612899	c 07	N77-18154 *
US-PATENT-APPL-SN-580365	c 15	N71-23255 *	US-PATENT-APPL-SN-596735	c 32	N71-24285 *	US-PATENT-APPL-SN-612964	c 20	N77-10148 *
US-PATENT-APPL-SN-580397	c 37	N87-21333 *	US-PATENT-APPL-SN-596787	c 37	N77-19458 *	US-PATENT-APPL-SN-612965	c 52	N77-14735 *
US-PATENT-APPL-SN-580419	c 34	N85-33433 *	US-PATENT-APPL-SN-596787	c 37	N78-31426 *	US-PATENT-APPL-SN-612966	c 35	N78-12390 *
US-PATENT-APPL-SN-580573	c 44	N85-34441 *	US-PATENT-APPL-SN-596788	c 33	N76-21390 *	US-PATENT-APPL-SN-612967	c 74	N77-18893 *
US-PATENT-APPL-SN-580574	c 18	N84-22610 #	US-PATENT-APPL-SN-596905	c 24				

US-PATENT-APPL-SN-613235	c 14	N73-30394 *	US-PATENT-APPL-SN-634304	c 27	N79-18052 *	US-PATENT-APPL-SN-646934	c 08	N71-18692 *
US-PATENT-APPL-SN-613239	c 31	N70-37986 *	US-PATENT-APPL-SN-635325	c 14	N69-27431 *	US-PATENT-APPL-SN-64709	c 10	N72-28240 *
US-PATENT-APPL-SN-613734	c 52	N77-14738 *	US-PATENT-APPL-SN-635326	c 14	N71-18482 *	US-PATENT-APPL-SN-64723	c 07	N72-25170 *
US-PATENT-APPL-SN-613979	c 33	N71-14035 *	US-PATENT-APPL-SN-635327	c 12	N69-39988 *	US-PATENT-APPL-SN-647298	c 31	N71-16102 *
US-PATENT-APPL-SN-615030	c 35	N78-19465 *	US-PATENT-APPL-SN-635328	c 09	N69-21467 *	US-PATENT-APPL-SN-648034	c 09	N79-21083 *
US-PATENT-APPL-SN-61535	c 15	N72-25453 *	US-PATENT-APPL-SN-63532	c 08	N72-25209 *	US-PATENT-APPL-SN-648700	c 74	N78-13874 *
US-PATENT-APPL-SN-615505	c 34	N85-29180 *	US-PATENT-APPL-SN-635519	c 35	N77-24455 *	US-PATENT-APPL-SN-649075	c 14	N71-15600 *
US-PATENT-APPL-SN-616002	c 34	N86-27593 *	US-PATENT-APPL-SN-635531	c 33	N77-14334 *	US-PATENT-APPL-SN-649076	c 08	N71-24890 *
US-PATENT-APPL-SN-616332	c 24	N77-27188 *	US-PATENT-APPL-SN-635970	c 15	N69-21465 *	US-PATENT-APPL-SN-649078	c 07	N71-19493 *
US-PATENT-APPL-SN-616333	c 33	N76-32457 *	US-PATENT-APPL-SN-635972	c 18	N71-23710 *	US-PATENT-APPL-SN-649327	c 33	N87-25531 *
US-PATENT-APPL-SN-616472	c 74	N77-22951 *	US-PATENT-APPL-SN-63610	c 06	N72-25147 *	US-PATENT-APPL-SN-649328	c 27	N86-19456 *
US-PATENT-APPL-SN-616528	c 24	N80-33482 *	US-PATENT-APPL-SN-636193	c 74	N78-15880 *	US-PATENT-APPL-SN-649329	c 05	N84-33400 *
US-PATENT-APPL-SN-617021	c 23	N71-16101 *	US-PATENT-APPL-SN-636459	c 44	N87-21410 *	US-PATENT-APPL-SN-649330	c 27	N86-19458 *
US-PATENT-APPL-SN-617022	c 07	N69-27462 *	US-PATENT-APPL-SN-636463	c 20	N87-16875 *	US-PATENT-APPL-SN-649356	c 09	N71-23189 *
US-PATENT-APPL-SN-617202	c 74	N77-28933 *	US-PATENT-APPL-SN-636465	c 37	N85-29284 *	US-PATENT-APPL-SN-649357	c 08	N71-12500 *
US-PATENT-APPL-SN-617612	c 52	N77-10780 *	US-PATENT-APPL-SN-636796	c 35	N78-17358 *	US-PATENT-APPL-SN-649358	c 07	N71-11267 *
US-PATENT-APPL-SN-617770	c 14	N71-23267 *	US-PATENT-APPL-SN-636878	c 14	N71-20442 *	US-PATENT-APPL-SN-649359	c 15	N71-18701 *
US-PATENT-APPL-SN-617774	c 18	N71-16124 *	US-PATENT-APPL-SN-637247	c 35	N77-10493 *	US-PATENT-APPL-SN-649360	c 23	N71-16365 *
US-PATENT-APPL-SN-617775	c 06	N71-28807 *	US-PATENT-APPL-SN-637249	c 38	N76-28563 *	US-PATENT-APPL-SN-650166	c 09	N71-23191 *
US-PATENT-APPL-SN-617776	c 18	N69-39895 *	US-PATENT-APPL-SN-637268	c 47	N77-10753 *	US-PATENT-APPL-SN-651002	c 08	N79-14108 *
US-PATENT-APPL-SN-617778	c 14	N71-26244 *	US-PATENT-APPL-SN-637269	c 52	N77-28717 *	US-PATENT-APPL-SN-651007	c 74	N78-17865 *
US-PATENT-APPL-SN-617779	c 09	N69-39929 *	US-PATENT-APPL-SN-637882	c 15	N71-17650 *	US-PATENT-APPL-SN-651009	c 26	N78-18182 *
US-PATENT-APPL-SN-617783	c 15	N69-24266 *	US-PATENT-APPL-SN-638192	c 10	N71-26415 *	US-PATENT-APPL-SN-651627	c 26	N72-25679 *
US-PATENT-APPL-SN-617871	c 27	N85-29043 *	US-PATENT-APPL-SN-638194	c 33	N71-21507 *	US-PATENT-APPL-SN-651972	c 27	N74-23125 *
US-PATENT-APPL-SN-617895	c 32	N77-14292 *	US-PATENT-APPL-SN-638541	c 33	N86-20671 *	US-PATENT-APPL-SN-652948	c 52	N77-14736 *
US-PATENT-APPL-SN-618594	c 37	N77-13418 *	US-PATENT-APPL-SN-638584	c 33	N86-20670 *	US-PATENT-APPL-SN-652979	c 45	N82-11634 *
US-PATENT-APPL-SN-61894	c 12	N72-21310 *	US-PATENT-APPL-SN-638586	c 32	N87-21207 *	US-PATENT-APPL-SN-653277	c 31	N71-23912 *
US-PATENT-APPL-SN-61895	c 07	N72-33146 *	US-PATENT-APPL-SN-638707	c 14	N69-27486 *	US-PATENT-APPL-SN-653278	c 14	N69-27503 *
US-PATENT-APPL-SN-618969	c 05	N71-26333 *	US-PATENT-APPL-SN-639589	c 28	N70-33372 *	US-PATENT-APPL-SN-653316	c 25	N77-32255 *
US-PATENT-APPL-SN-619519	c 32	N71-16106 *	US-PATENT-APPL-SN-640154	c 09	N71-18600 *	US-PATENT-APPL-SN-653422	c 35	N77-20401 *
US-PATENT-APPL-SN-619520	c 05	N69-21380 *	US-PATENT-APPL-SN-640447	c 15	N71-19486 *	US-PATENT-APPL-SN-653682	c 39	N78-10493 *
US-PATENT-APPL-SN-619521	c 06	N69-39889 *	US-PATENT-APPL-SN-640448	c 08	N71-19420 *	US-PATENT-APPL-SN-654787	c 07	N77-32148 *
US-PATENT-APPL-SN-619903	c 15	N69-27505 *	US-PATENT-APPL-SN-640449	c 09	N71-19516 *	US-PATENT-APPL-SN-655149	c 07	N77-23106 *
US-PATENT-APPL-SN-619907	c 09	N69-21543 *	US-PATENT-APPL-SN-640450	c 15	N71-17694 *	US-PATENT-APPL-SN-655448	c 18	N70-39897 *
US-PATENT-APPL-SN-619908	c 08	N71-20571 *	US-PATENT-APPL-SN-640452	c 09	N71-12513 *	US-PATENT-APPL-SN-655601	c 32	N86-27513 *
US-PATENT-APPL-SN-619986	c 37	N75-32465 *	US-PATENT-APPL-SN-640453	c 23	N71-16099 *	US-PATENT-APPL-SN-655605	c 52	N87-24874 *
US-PATENT-APPL-SN-620675	c 35	N78-19466 *	US-PATENT-APPL-SN-640454	c 06	N71-11238 *	US-PATENT-APPL-SN-655606	c 32	N89-14374 *
US-PATENT-APPL-SN-621098	c 09	N71-20446 *	US-PATENT-APPL-SN-640455	c 10	N71-23099 *	US-PATENT-APPL-SN-655675	c 17	N71-24142 *
US-PATENT-APPL-SN-621174	c 15	N71-19569 *	US-PATENT-APPL-SN-640456	c 03	N71-26726 *	US-PATENT-APPL-SN-655677	c 08	N71-19432 *
US-PATENT-APPL-SN-621715	c 05	N71-11207 *	US-PATENT-APPL-SN-640457	c 03	N71-11052 *	US-PATENT-APPL-SN-655724	c 15	N71-22706 *
US-PATENT-APPL-SN-621742	c 28	N71-23968 *	US-PATENT-APPL-SN-640458	c 15	N71-23811 *	US-PATENT-APPL-SN-656952	c 09	N71-12519 *
US-PATENT-APPL-SN-623156	c 04	N77-19056 *	US-PATENT-APPL-SN-640459	c 10	N71-18723 *	US-PATENT-APPL-SN-656953	c 14	N71-17585 *
US-PATENT-APPL-SN-623187	c 34	N77-19353 *	US-PATENT-APPL-SN-640460	c 14	N69-21541 *	US-PATENT-APPL-SN-656993	c 09	N71-24843 *
US-PATENT-APPL-SN-623188	c 54	N77-21844 *	US-PATENT-APPL-SN-640462	c 15	N71-20443 *	US-PATENT-APPL-SN-656995	c 21	N71-14132 *
US-PATENT-APPL-SN-623238	c 51	N77-25769 *	US-PATENT-APPL-SN-640712	c 24	N85-35233 *	US-PATENT-APPL-SN-657309	c 31	N86-29055 *
US-PATENT-APPL-SN-623389	c 31	N81-15154 *	US-PATENT-APPL-SN-640781	c 03	N69-25146 *	US-PATENT-APPL-SN-657310	c 35	N87-14670 *
US-PATENT-APPL-SN-623536	c 09	N78-18083 *	US-PATENT-APPL-SN-640783	c 09	N71-26000 *	US-PATENT-APPL-SN-657742	c 18	N71-26100 *
US-PATENT-APPL-SN-625077	c 44	N86-25874 *	US-PATENT-APPL-SN-640784	c 15	N69-39935 *	US-PATENT-APPL-SN-657903	c 07	N83-33884 *
US-PATENT-APPL-SN-625732	c 35	N77-18417 *	US-PATENT-APPL-SN-640785	c 09	N69-24333 *	US-PATENT-APPL-SN-657907	c 27	N78-17213 *
US-PATENT-APPL-SN-625733	c 26	N77-28265 *	US-PATENT-APPL-SN-640786	c 15	N71-24695 *	US-PATENT-APPL-SN-657995	c 35	N77-22450 *
US-PATENT-APPL-SN-625734	c 35	N78-10428 *	US-PATENT-APPL-SN-640787	c 28	N71-24321 *	US-PATENT-APPL-SN-657996	c 60	N78-10709 *
US-PATENT-APPL-SN-625759	c 37	N77-14478 *	US-PATENT-APPL-SN-640788	c 15	N69-27502 *	US-PATENT-APPL-SN-657997	c 60	N77-32731 *
US-PATENT-APPL-SN-625781	c 33	N77-31404 *	US-PATENT-APPL-SN-640789	c 15	N69-27504 *	US-PATENT-APPL-SN-657998	c 27	N78-32262 *
US-PATENT-APPL-SN-626376	c 05	N71-11889 *	US-PATENT-APPL-SN-641142	c 23	N86-32525 *	US-PATENT-APPL-SN-658132	c 44	N77-32580 *
US-PATENT-APPL-SN-626942	c 51	N77-27677 *	US-PATENT-APPL-SN-641143	c 27	N85-34280 *	US-PATENT-APPL-SN-658133	c 71	N78-10837 *
US-PATENT-APPL-SN-627257	c 08	N71-12504 *	US-PATENT-APPL-SN-641146	c 76	N87-13313 *	US-PATENT-APPL-SN-65840	c 10	N72-20225 *
US-PATENT-APPL-SN-627537	c 71	N88-24241 *	US-PATENT-APPL-SN-641147	c 27	N87-23751 *	US-PATENT-APPL-SN-658449	c 32	N77-20289 *
US-PATENT-APPL-SN-627599	c 18	N71-16046 *	US-PATENT-APPL-SN-641152	c 23	N87-28605 *	US-PATENT-APPL-SN-658450	c 37	N77-22482 *
US-PATENT-APPL-SN-628094	c 16	N71-20400 *	US-PATENT-APPL-SN-641153	c 27	N86-32568 *	US-PATENT-APPL-SN-658487	c 37	N81-25371 *
US-PATENT-APPL-SN-628221	c 07	N78-18066 *	US-PATENT-APPL-SN-641420	c 03	N71-23449 *	US-PATENT-APPL-SN-658955	c 14	N71-15605 *
US-PATENT-APPL-SN-628246	c 15	N71-17687 *	US-PATENT-APPL-SN-641431	c 30	N71-16090 *	US-PATENT-APPL-SN-658956	c 15	N71-15607 *
US-PATENT-APPL-SN-628247	c 09	N69-21542 *	US-PATENT-APPL-SN-641441	c 08	N71-18751 *	US-PATENT-APPL-SN-658957	c 14	N71-17584 *
US-PATENT-APPL-SN-628248	c 14	N69-27432 *	US-PATENT-APPL-SN-641784	c 37	N77-32499 *	US-PATENT-APPL-SN-658964	c 19	N71-26674 *
US-PATENT-APPL-SN-628866	c 31	N85-20153 *	US-PATENT-APPL-SN-641802	c 34	N77-30399 *	US-PATENT-APPL-SN-658999	c 44	N82-24645 *
US-PATENT-APPL-SN-629456	c 37	N77-14479 *	US-PATENT-APPL-SN-641803	c 35	N78-18391 *	US-PATENT-APPL-SN-659474	c 35	N86-26595 *
US-PATENT-APPL-SN-629457	c 35	N77-32454 *	US-PATENT-APPL-SN-64224	c 17	N70-38490 *	US-PATENT-APPL-SN-659475	c 31	N86-32587 *
US-PATENT-APPL-SN-629458	c 35	N78-17357 *	US-PATENT-APPL-SN-64226	c 17	N70-38198 *	US-PATENT-APPL-SN-659882	c 37	N78-13436 *
US-PATENT-APPL-SN-629759	c 15	N71-16076 *	US-PATENT-APPL-SN-642310	c 44	N86-19721 *	US-PATENT-APPL-SN-660004	c 15	N72-25450 *
US-PATENT-APPL-SN-630579	c 35	N77-24454 *	US-PATENT-APPL-SN-642602	c 54	N86-29507 *	US-PATENT-APPL-SN-660571	c 26	N71-23654 *
US-PATENT-APPL-SN-630583	c 33	N77-24375 *	US-PATENT-APPL-SN-643041	c 44	N78-19599 *	US-PATENT-APPL-SN-660572	c 15	N71-15571 *
US-PATENT-APPL-SN-631341	c 60	N78-17691 *	US-PATENT-APPL-SN-643043	c 35	N78-13400 *	US-PATENT-APPL-SN-660573	c 15	N71-28936 *
US-PATENT-APPL-SN-63144	c 16	N72-28521 *	US-PATENT-APPL-SN-643332	c 15	N71-14932 *	US-PATENT-APPL-SN-660841	c 14	N71-15621 *
US-PATENT-APPL-SN-631848	c 09	N71-12514 *	US-PATENT-APPL-SN-643522	c 16	N86-26352 *	US-PATENT-APPL-SN-660842	c 14	N71-23726 *
US-PATENT-APPL-SN-63195	c 14	N72-27408 *	US-PATENT-APPL-SN-643524	c 27	N86-29039 *	US-PATENT-APPL-SN-660843	c 08	N71-24650 *
US-PATENT-APPL-SN-632104	c 09	N71-19470 *	US-PATENT-APPL-SN-643589	c 27	N86-31727 *	US-PATENT-APPL-SN-6610	c 15	N72-22492 *
US-PATENT-APPL-SN-632111	c 37	N79-10422 *	US-PATENT-APPL-SN-643897	c 73	N78-32848 *	US-PATENT-APPL-SN-661170	c 14	N71-24809 *
US-PATENT-APPL-SN-632112	c 35	N77-22449 *	US-PATENT-APPL-SN-64391	c 31	N72-25842 *	US-PATENT-APPL-SN-661481	c 26	N88-14179 *
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US-PATENT-APPL-SN-708771	c 26	N78-24333 *	US-PATENT-APPL-SN-725689	c 37	N87-17037 *	US-PATENT-APPL-SN-744910	c 15	N71-17649 *
US-PATENT-APPL-SN-708795	c 37	N77-28487 *	US-PATENT-APPL-SN-725714	c 33	N89-14384 *	US-PATENT-APPL-SN-745337	c 28	N72-20758 *
US-PATENT-APPL-SN-708796	c 36	N78-18410 *	US-PATENT-APPL-SN-725719	c 15	N71-26243 *	US-PATENT-APPL-SN-745384	c 25	N79-11151 *
US-PATENT-APPL-SN-708800	c 54	N78-17676 *	US-PATENT-APPL-SN-725725	c 27	N87-16908 *	US-PATENT-APPL-SN-745766	c 37	N79-11403 *
US-PATENT-APPL-SN-708951	c 27	N78-31232 *	US-PATENT-APPL-SN-725727	c 27	N87-22845 *	US-PATENT-APPL-SN-745852	c 12	N71-17661 *
US-PATENT-APPL-SN-709255	c 37	N86-32738 *	US-PATENT-APPL-SN-726898	c 12	N71-17579 *	US-PATENT-APPL-SN-745973	c 36	N86-29204 *
US-PATENT-APPL-SN-709257	c 32	N87-14559 *	US-PATENT-APPL-SN-727034	c 35	N87-14669 *	US-PATENT-APPL-SN-745977	c 35	N87-14671 *
US-PATENT-APPL-SN-709398	c 06	N71-13461 *	US-PATENT-APPL-SN-727035	c 33	N86-32624 *	US-PATENT-APPL-SN-746160	c 37	N86-20797 *
US-PATENT-APPL-SN-709399	c 16	N71-26154 *	US-PATENT-APPL-SN-727444	c 31	N81-15154 *	US-PATENT-APPL-SN-746269	c 44	N78-25528 *
US-PATENT-APPL-SN-709415	c 44	N78-27515 *	US-PATENT-APPL-SN-727480	c 14	N71-17658 *	US-PATENT-APPL-SN-746578	c 12	N79-26075 *
US-PATENT-APPL-SN-709622	c 33	N71-24858 *	US-PATENT-APPL-SN-727503	c 08	N81-19130 *	US-PATENT-APPL-SN-746579	c 33	N81-27397 *
US-PATENT-APPL-SN-70967	c 07	N73-13149 *	US-PATENT-APPL-SN-727838	c 33	N86-20681 *	US-PATENT-APPL-SN-746580	c 34	N78-17335 *
US-PATENT-APPL-SN-70967	c 32	N74-10132 *	US-PATENT-APPL-SN-727931	c 33	N88-24862 *	US-PATENT-APPL-SN-746809	c 35	N87-22953 *
US-PATENT-APPL-SN-709849	c 52	N77-25772 *	US-PATENT-APPL-SN-728234	c 03	N71-12255 *	US-PATENT-APPL-SN-74759	c 14	N73-20478 *
US-PATENT-APPL-SN-710032	c 54	N77-30749 *	US-PATENT-APPL-SN-728369	c 52	N76-33835 *	US-PATENT-APPL-SN-747674	c 27	N80-26446 *
US-PATENT-APPL-SN-710035	c 44	N78-24608 *	US-PATENT-APPL-SN-729299	c 03	N72-15986 *	US-PATENT-APPL-SN-747675	c 37	N78-31426 *
US-PATENT-APPL-SN-710036	c 44	N78-32539 *	US-PATENT-APPL-SN-729704	c 37	N87-23983 *	US-PATENT-APPL-SN-748536	c 33	N86-20680 *
US-PATENT-APPL-SN-71047	c 09	N72-21247 *	US-PATENT-APPL-SN-729719	c 32	N87-25511 *	US-PATENT-APPL-SN-74861	c 27	N72-25699 *
US-PATENT-APPL-SN-71048	c 18	N73-12604 *	US-PATENT-APPL-SN-729766	c 09	N87-14355 *	US-PATENT-APPL-SN-74862	c 27	N73-16764 *
US-PATENT-APPL-SN-710533	c 02	N71-11043 *	US-PATENT-APPL-SN-729767	c 24	N87-27742 *	US-PATENT-APPL-SN-749121	c 07	N72-11449 *
US-PATENT-APPL-SN-710561	c 09	N71-12517 *	US-PATENT-APPL-SN-729768	c 72	N87-21660 *	US-PATENT-APPL-SN-749148	c 10	N71-19421 *
US-PATENT-APPL-SN-710562	c 31	N71-16085 *	US-PATENT-APPL-SN-730045	c 32	N78-24391 *	US-PATENT-APPL-SN-749149	c 15	N71-24897 *
US-PATENT-APPL-SN-710621	c 06	N73-27086 *	US-PATENT-APPL-SN-730046	c 35	N78-32396 *	US-PATENT-APPL-SN-749181	c 09	N71-24803 *
US-PATENT-APPL-SN-710945	c 33	N71-15568 *	US-PATENT-APPL-SN-730162	c 09	N71-18599 *	US-PATENT-APPL-SN-749320	c 14	N72-22443 *
US-PATENT-APPL-SN-710949	c 12	N71-17631 *	US-PATENT-APPL-SN-730468	c 25	N79-11152 *	US-PATENT-APPL-SN-749420	c 04	N82-16059 *
US-PATENT-APPL-SN-711898	c 18	N71-24934 *	US-PATENT-APPL-SN-730700	c 07	N71-24583 *	US-PATENT-APPL-SN-749548	c 10	N71-33129 *
US-PATENT-APPL-SN-711903	c 18	N71-26772 *	US-PATENT-APPL-SN-730701	c 12	N71-18615 *	US-PATENT-APPL-SN-750031	c 05	N73-32012 *
US-PATENT-APPL-SN-711921	c 18	N71-16105 *	US-PATENT-APPL-SN-730702	c 33	N71-16356 *	US-PATENT-APPL-SN-750235	c 25	N75-14844 *
US-PATENT-APPL-SN-711970	c 09	N71-18830 *	US-PATENT-APPL-SN-730703	c 10	N71-13537 *	US-PATENT-APPL-SN-750655	c 74	N78-32854 *
US-PATENT-APPL-SN-711971	c 09	N71-23598 *	US-PATENT-APPL-SN-730733	c 28	N71-16224 *	US-PATENT-APPL-SN-750786	c 07	N71-27341 *
US-PATENT-APPL-SN-711972	c 06	N71-24607 *	US-PATENT-APPL-SN-730734	c 15	N71-17654 *	US-PATENT-APPL-SN-750787	c 10	N71-27126 *
US-PATENT-APPL-SN-712065	c 08	N71-12503 *	US-PATENT-APPL-SN-730778	c 32	N79-10264 *	US-PATENT-APPL-SN-750792	c 37	N79-11402 *
US-PATENT-APPL-SN-712099	c 23	N71-24868 *	US-PATENT-APPL-SN-731388	c 15	N71-24835 *	US-PATENT-APPL-SN-750798	c 85	N79-17747 *
US-PATENT-APPL-SN-712270	c 52	N79-27836 *	US-PATENT-APPL-SN-732321	c 33	N87-28832 *	US-PATENT-APPL-SN-751061	c 18	N71-29040 *
US-PATENT-APPL-SN-712419	c 35	N78-14364 *	US-PATENT-APPL-SN-732455	c 22	N71-28759 *	US-PATENT-APPL-SN-751198	c 03	N71-24718 *
US-PATENT-APPL-SN-712658	c 07	N71-19773 *	US-PATENT-APPL-SN-732630	c 36	N78-14380 *	US-PATENT-APPL-SN-751215	c 22	N72-20597 *
US-PATENT-APPL-SN-712981	c 31	N78-25256 *	US-PATENT-APPL-SN-73283	c 15	N72-28495 *	US-PATENT-APPL-SN-751266	c 15	N71-33518 *
US-PATENT-APPL-SN-713027	c 37	N79-10419 *	US-PATENT-APPL-SN-732917	c 14	N71-17575 *	US-PATENT-APPL-SN-751644	c 85	N87-21755 *
US-PATENT-APPL-SN-713162	c 06	N71-26754 *	US-PATENT-APPL-SN-732921	c 10	N71-26544 *	US-PATENT-APPL-SN-751691	c 37	N87-21332 *
US-PATENT-APPL-SN-713188	c 08	N71-33110 *	US-PATENT-APPL-SN-732922	c 17	N71-28747 *	US-PATENT-APPL-SN-751695	c 71	N87-21652 *
US-PATENT-APPL-SN-713449	c 74	N87-25843 *	US-PATENT-APPL-SN-733039	c 07	N72-12081 *	US-PATENT-APPL-SN-752050	c 07	N81-19115 *
US-PATENT-APPL-SN-713616	c 06	N71-27363 *	US-PATENT-APPL-SN-73310	c 09	N72-25247 *	US-PATENT-APPL-SN-752279	c 09	N71-26787 *
US-PATENT-APPL-SN-714051	c 33	N86-21742 *	US-PATENT-APPL-SN-73367	c 14	N71-15969 *	US-PATENT-APPL-SN-752748	c 35	N78-25391 *
US-PATENT-APPL-SN-714158	c 33	N78-13320 *	US-PATENT-APPL-SN-733825	c 31	N79-11246 *	US-PATENT-APPL-SN-752946	c 15	N71-29032 *
US-PATENT-APPL-SN-714296	c 14	N71-15604 *	US-PATENT-APPL-SN-73422	c 15	N72-25454 *	US-PATENT-APPL-SN-752947	c 31	N71-15689 *
US-PATENT-APPL-SN-714595	c 15	N71-17822 *	US-PATENT-APPL-SN-734366	c 27	N87-22847 *	US-PATENT-APPL-SN-753103	c 37	N80-14397 *
US-PATENT-APPL-SN-715485	c 74	N78-14889 *	US-PATENT-APPL-SN-734805	c 14	N70-34816 *	US-PATENT-APPL-SN-753452	c 07	N79-14096 *
US-PATENT-APPL-SN-715975	c 06	N71-11240 *	US-PATENT-APPL-SN-734901	c 27	N78-17205 *	US-PATENT-APPL-SN-753964	c 24	N78-27180 *
US-PATENT-APPL-SN-716183	c 15	N71-18132 *	US-PATENT-APPL-SN-734902	c 24	N78-14096 *	US-PATENT-APPL-SN-753965	c 54	N78-37135 *
US-PATENT-APPL-SN-716734	c 15	N71-17628 *	US-PATENT-APPL-SN-735911	c 14	N70-41946 *	US-PATENT-APPL-SN-753965	c 54	N79-24651 *
US-PATENT-APPL-SN-716795	c 14	N71-20435 *	US-PATENT-APPL-SN-736286	c 32	N79-11265 *	US-PATENT-APPL-SN-753971	c 71	N84-14873 *
US-PATENT-APPL-SN-716885	c 74	N78-33913 *	US-PATENT-APPL-SN-736848	c 23	N71-16212 *	US-PATENT-APPL-SN-753974	c 16	N71-33410 *
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US-PATENT-APPL-SN-717319	c 44	N77-31601 *	US-PATENT-APPL-SN-736910	c 27	N78-32260 *	US-PATENT-APPL-SN-753977	c 74	N79-12890 *
US-PATENT-APPL-SN-717320	c 44	N78-15560 *	US-PATENT-APPL-SN-737018	c 37	N86-20801 *	US-PATENT-APPL-SN-753978	c 54	N78-32721 *
US-PATENT-APPL-SN-717822	c 09	N71-25866 *	US-PATENT-APPL-SN-737974	c 33	N78-18308 *	US-PATENT-APPL-SN-754019	c 09	N71-25999 *
US-PATENT-APPL-SN-718095	c 28	N70-39899 *	US-PATENT-APPL-SN-737975	c 32	N84-27952 *	US-PATENT-APPL-SN-754020	c 12	N71-27332 *
US-PATENT-APPL-SN-718137	c 44	N78-31527 *	US-PATENT-APPL-SN-738119	c 18	N71-15545 *	US-PATENT-APPL-SN-754055	c 07	N71-24624 *
US-PATENT-APPL-SN-718244	c 05	N78-32086 *	US-PATENT-APPL-SN-738218	c 37	N78-27425 *	US-PATENT-APPL-SN-754066	c 39	N78-15512 *
US-PATENT-APPL-SN-718266	c 74	N78-17867 *	US-PATENT-APPL-SN-738314	c 12	N71-17573 *	US-PATENT-APPL-SN-75431	c 21	N72-31637 *
US-PATENT-APPL-SN-718267	c 26	N77-29260 *	US-PATENT-APPL-SN-738315	c 14	N72-21446 *	US-PATENT-APPL-SN-754362	c 27	N87-21112 *
US-PATENT-APPL-SN-718268	c 44	N78-33526 *	US-PATENT-APPL-SN-738315	c 14	N72-31446 *	US-PATENT-APPL-SN-754707	c 33	N87-22895 *
US-PATENT-APPL-SN-718279	c 15	N71-26312 *	US-PATENT-APPL-SN-738334	c 15	N72-23497 *	US-PATENT-APPL-SN-755288	c 34	N87-22950 *
US-PATENT-APPL-SN-718689	c 14	N71-17655 *	US-PATENT-APPL-SN-738931	c 35	N86-20756 *	US-PATENT-APPL-SN-755288	c 34	N88-23958 *
US-PATENT-APPL-SN-718752	c 03	N71-18698 *	US-PATENT-APPL-SN-739072	c 33	N75-27251 *	US-PATENT-APPL-SN-755310	c 25	N78-15210 *
US-PATENT-APPL-SN-718769	c 14	N71-17662 *	US-PATENT-APPL-SN-73922	c 14	N73-25461 *	US-PATENT-APPL-SN-755323	c 74	N79-11865 *
US-PATENT-APPL-SN-719029	c 14	N71-27186 *	US-PATENT-APPL-SN-73932	c 15	N72-22485 *	US-PATENT-APPL-SN-755960	c 31	N88-29052 *
US-PATENT-APPL-SN-719173	c 28	N70-33331 *	US-PATENT-APPL-SN-739391	c 09	N72-17156 *	US-PATENT-APPL-SN-756260	c 23	N71-26722 *
US-PATENT-APPL-SN-719794	c 35	N86-32695 *	US-PATENT-APPL-SN-739760	c 27	N86-31726 *	US-PATENT-APPL-SN-756266	c 15	N71-26145 *
US-PATENT-APPL-SN-719796	c 24	N86-21590 *	US-PATENT-APPL-SN-739788	c 37	N88-14360 *	US-PATENT-APPL-SN-756381	c 06	N71-25929 *
US-PATENT-APPL-SN-719798	c 76	N85-30934 *	US-PATENT-APPL-SN-739789	c 34	N85-29182 *	US-PATENT-APPL-SN-756511	c 09	N71-27016 *
US-PATENT-APPL-SN-719799	c 35	N86-25752 *	US-PATENT-APPL-SN-739792	c 33	N87-28833 *	US-PATENT-APPL-SN-756834	c 15	N72-21466 *
US-PATENT-APPL-SN-719869	c 31	N71-15676 *	US-PATENT-APPL-SN-739908	c 15	N78-25119 *	US-PATENT-APPL-SN-757017	c 35	N77-21393 *
US-PATENT-APPL-SN-719870	c 07	N71-26292 *	US-PATENT-APPL-SN-739909	c 37	N78-24545 *	US-PATENT-APPL-SN-757625	c 09	N71-26701 *
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US-PATENT-APPL-SN-72024	c 09	N73-12211 *	US-PATENT-APPL-SN-739927	c 32	N71-16103 *	US-PATENT-APPL-SN-757875	c 09	N71-24805 *
US-PATENT-APPL-SN-720521	c 44	N78-25530 *	US-PATENT-APPL-SN-740153	c 28	N79-11231 *	US-PATENT-APPL-SN-758082	c 15	N71-17805 *
US-PATENT-APPL-SN-720546	c 18	N72-17532 *	US-PATENT-APPL-SN-740155	c 74	N78-27904 *	US-PATENT-APPL-SN-758390	c 28	N71-26642 *
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US-PATENT-APPL-SN-721607	c 18	N71-25881 *	US-PATENT-APPL-SN-740457	c 35	N78-32395 *	US-PATENT-APPL-SN-758721	c 52	N79-18580 *
US-PATENT-APPL-SN-723264	c 24	N78-10214 *	US-PATENT-APPL-SN-741056	c 07	N81-19116 *	US-PATENT-APPL-SN-758942	c 27	N71-14090 *
US-PATENT-APPL-SN-723264	c 24	N78-17149 *	US-PATENT-APPL-SN-741405	c 23	N86-21582 *	US-PATENT-APPL-SN-759220	c 27	N78-17214 *
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US-PATENT-APPL-SN-723465	c 37	N74-15125 *	US-PATENT-APPL-SN-741749	c 52	N79-14751 *	US-PATENT-APPL-SN-759457	c 33	N71-16357 *
US-PATENT-APPL-SN-723476	c 05	N71-12341 *	US-PATENT-APPL-SN-741824	c 07	N71-12389 *	US-PATENT-APPL-SN-759460	c 09	N71-24597 *
US-PATENT-APPL-SN-723488	c 09	N71-28691 *	US-PATENT-APPL-SN-742034	c 33	N78-10377 *	US-PATENT-APPL-SN-759665	c 14	N71-18481 *
US-PATENT-APPL-SN-723804	c 09	N71-24806 *	US-PATENT-APPL-SN-742816	c 14	N71-17656 *	US-PATENT-APPL-SN-759665	c 52	N79-26771 *
US-PATENT-APPL-SN-723805	c 10	N71-26339 *	US-PATENT-APPL-SN-743249	c 35	N77-32456 *	US-PATENT-APPL-SN-760057	c 44	N79-14527 *
US-PATENT-APPL-SN-723827	c 10	N71-27137 *	US-PATENT-APPL-SN-743429	c 07	N71-11285 *	US-PATENT-APPL-SN-760114	c 28	N72-11709 *
US-PATENT-APPL-SN-723476	c 15	N71-17696 *	US-PATENT-APPL-SN-743525	c 07	N71-28430 *	US-PATENT-APPL-SN-760374	c 27	N87-16909 *
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US-PATENT-APPL-SN-725405	c 15	N71-26134 *	US-PATENT-APPL-SN-744522	c 33	N72-21314 *	US-PATENT-APPL-SN-760378	c 37	N86-32737 *
US-PATENT-APPL-SN-72								

US-PATENT-APPL-SN-760791	c 27	N87-14515 *	US-PATENT-APPL-SN-772168	c 37	N79-20377 *	US-PATENT-APPL-SN-7867	c 14	N72-17324 *
US-PATENT-APPL-SN-760797	c 27	N87-16907 *	US-PATENT-APPL-SN-77220	c 14	N72-27409 *	US-PATENT-APPL-SN-7868	c 10	N72-17173 *
US-PATENT-APPL-SN-760799	c 54	N87-29118 *	US-PATENT-APPL-SN-77221	c 08	N72-25210 *	US-PATENT-APPL-SN-786913	c 27	N79-12221 *
US-PATENT-APPL-SN-760809	c 24	N78-24290 *	US-PATENT-APPL-SN-772434	c 52	N80-14687 *	US-PATENT-APPL-SN-78703	c 15	N73-20514 *
US-PATENT-APPL-SN-760810	c 26	N78-32229 *	US-PATENT-APPL-SN-77251 *	c 25	N70-41628 *	US-PATENT-APPL-SN-78704	c 05	N72-25121 *
US-PATENT-APPL-SN-760819	c 14	N70-34820 *	US-PATENT-APPL-SN-77252	c 02	N70-37939 *	US-PATENT-APPL-SN-78717	c 05	N73-13114 *
US-PATENT-APPL-SN-760927	c 26	N71-25490 *	US-PATENT-APPL-SN-77256	c 15	N70-33323 *	US-PATENT-APPL-SN-787393	c 23	N71-26206 *
US-PATENT-APPL-SN-760928	c 15	N71-28582 *	US-PATENT-APPL-SN-773029	c 09	N71-24893 *	US-PATENT-APPL-SN-787410	c 15	N71-19213 *
US-PATENT-APPL-SN-761007	c 18	N71-26155 *	US-PATENT-APPL-SN-773072	c 10	N72-28241 *	US-PATENT-APPL-SN-78766	c 05	N74-10907 *
US-PATENT-APPL-SN-761235	c 27	N86-32569 *	US-PATENT-APPL-SN-773530	c 25	N75-29192 *	US-PATENT-APPL-SN-787846	c 23	N71-33229 *
US-PATENT-APPL-SN-761252	c 27	N80-32515 *	US-PATENT-APPL-SN-774151	c 15	N71-17692 *	US-PATENT-APPL-SN-787906	c 03	N71-26084 *
US-PATENT-APPL-SN-761310	c 25	N88-23846 *	US-PATENT-APPL-SN-774265	c 10	N71-27365 *	US-PATENT-APPL-SN-787911	c 03	N71-28579 *
US-PATENT-APPL-SN-761404	c 09	N71-12526 *	US-PATENT-APPL-SN-774266	c 15	N71-26185 *	US-PATENT-APPL-SN-788045	c 24	N79-25142 *
US-PATENT-APPL-SN-762362	c 44	N79-24433 *	US-PATENT-APPL-SN-774384	c 32	N79-10262 *	US-PATENT-APPL-SN-788705	c 35	N78-24515 *
US-PATENT-APPL-SN-762363	c 44	N79-24432 *	US-PATENT-APPL-SN-774691	c 10	N72-31273 *	US-PATENT-APPL-SN-789043	c 10	N71-26531 *
US-PATENT-APPL-SN-762438	c 12	N71-17569 *	US-PATENT-APPL-SN-774733	c 14	N72-24477 *	US-PATENT-APPL-SN-789044	c 14	N72-20381 *
US-PATENT-APPL-SN-762935	c 14	N71-29041 *	US-PATENT-APPL-SN-775072	c 16	N71-24831 *	US-PATENT-APPL-SN-789045	c 15	N72-22489 *
US-PATENT-APPL-SN-762936	c 31	N69-27499 *	US-PATENT-APPL-SN-775239	c 37	N79-14382 *	US-PATENT-APPL-SN-789266	c 71	N88-24241 *
US-PATENT-APPL-SN-762956	c 14	N71-26627 *	US-PATENT-APPL-SN-775548	c 33	N87-21233 *	US-PATENT-APPL-SN-789278	c 15	N71-24694 *
US-PATENT-APPL-SN-762957	c 08	N71-27210 *	US-PATENT-APPL-SN-775870	c 09	N71-24800 *	US-PATENT-APPL-SN-789713	c 28	N86-23744 *
US-PATENT-APPL-SN-763040	c 14	N72-28438 *	US-PATENT-APPL-SN-775877	c 09	N72-22196 *	US-PATENT-APPL-SN-789903	c 07	N71-28429 *
US-PATENT-APPL-SN-763355	c 06	N71-28620 *	US-PATENT-APPL-SN-775877	c 02	N71-11039 *	US-PATENT-APPL-SN-790420	c 09	N71-24595 *
US-PATENT-APPL-SN-763684	c 15	N72-16329 *	US-PATENT-APPL-SN-775966	c 02	N71-11037 *	US-PATENT-APPL-SN-790556	c 08	N87-20999 *
US-PATENT-APPL-SN-763685	c 15	N71-24910 *	US-PATENT-APPL-SN-775966	c 31	N87-21160 *	US-PATENT-APPL-SN-790594	c 36	N87-23961 *
US-PATENT-APPL-SN-763705	c 09	N71-18720 *	US-PATENT-APPL-SN-775989	c 71	N87-21653 *	US-PATENT-APPL-SN-790596	c 35	N88-24927 *
US-PATENT-APPL-SN-763706	c 15	N71-24896 *	US-PATENT-APPL-SN-775990	c 17	N87-25348 *	US-PATENT-APPL-SN-790597	c 37	N88-14359 *
US-PATENT-APPL-SN-763729	c 12	N71-26546 *	US-PATENT-APPL-SN-776029	c 07	N79-10057 *	US-PATENT-APPL-SN-790637	c 44	N78-25529 *
US-PATENT-APPL-SN-763743	c 14	N72-21409 *	US-PATENT-APPL-SN-776146	c 44	N79-17313 *	US-PATENT-APPL-SN-791267	c 23	N72-17747 *
US-PATENT-APPL-SN-763744	c 10	N72-27246 *	US-PATENT-APPL-SN-776146	c 25	N82-21268 *	US-PATENT-APPL-SN-791268	c 33	N72-17947 *
US-PATENT-APPL-SN-763753	c 43	N78-14452 *	US-PATENT-APPL-SN-776185	c 03	N72-22041 *	US-PATENT-APPL-SN-791288	c 28	N71-25213 *
US-PATENT-APPL-SN-763868	c 15	N71-24679 *	US-PATENT-APPL-SN-777764	c 15	N71-27214 *	US-PATENT-APPL-SN-791364	c 14	N72-17328 *
US-PATENT-APPL-SN-763869	c 17	N71-16393 *	US-PATENT-APPL-SN-777765	c 15	N71-29018 *	US-PATENT-APPL-SN-791693	c 05	N71-11203 *
US-PATENT-APPL-SN-764245	c 24	N80-33482 *	US-PATENT-APPL-SN-777765	c 14	N73-28487 *	US-PATENT-APPL-SN-791888	c 23	N71-24725 *
US-PATENT-APPL-SN-764252	c 14	N71-25901 *	US-PATENT-APPL-SN-777766	c 31	N71-16221 *	US-PATENT-APPL-SN-792067	c 24	N78-17150 *
US-PATENT-APPL-SN-764470	c 16	N71-28554 *	US-PATENT-APPL-SN-777818	c 09	N71-27364 *	US-PATENT-APPL-SN-792068	c 51	N79-10693 *
US-PATENT-APPL-SN-764805	c 37	N87-17036 *	US-PATENT-APPL-SN-77786	c 14	N72-27412 *	US-PATENT-APPL-SN-792069	c 37	N79-10418 *
US-PATENT-APPL-SN-764812	c 10	N71-19468 *	US-PATENT-APPL-SN-777983	c 32	N79-24210 *	US-PATENT-APPL-SN-792623	c 14	N72-23457 *
US-PATENT-APPL-SN-764812	c 76	N88-24543 *	US-PATENT-APPL-SN-778195	c 24	N79-16915 *	US-PATENT-APPL-SN-793006	c 52	N86-19885 *
US-PATENT-APPL-SN-764823	c 33	N78-17296 *	US-PATENT-APPL-SN-77869	c 37	N79-21345 *	US-PATENT-APPL-SN-793657	c 17	N72-28536 *
US-PATENT-APPL-SN-765123	c 31	N71-15687 *	US-PATENT-APPL-SN-779024	c 10	N71-27271 *	US-PATENT-APPL-SN-793770	c 25	N71-15562 *
US-PATENT-APPL-SN-765138	c 44	N79-10513 *	US-PATENT-APPL-SN-779025	c 09	N72-23171 *	US-PATENT-APPL-SN-793771	c 14	N72-22440 *
US-PATENT-APPL-SN-765139	c 44	N78-31526 *	US-PATENT-APPL-SN-779160	c 14	N72-16282 *	US-PATENT-APPL-SN-793772	c 10	N71-18722 *
US-PATENT-APPL-SN-765165	c 32	N79-11264 *	US-PATENT-APPL-SN-779169	c 09	N71-28618 *	US-PATENT-APPL-SN-793823	c 09	N71-33109 *
US-PATENT-APPL-SN-765167	c 32	N79-10263 *	US-PATENT-APPL-SN-779415	c 60	N79-20751 *	US-PATENT-APPL-SN-794530	c 15	N72-11386 *
US-PATENT-APPL-SN-765264	c 02	N71-29128 *	US-PATENT-APPL-SN-779428	c 34	N78-25351 *	US-PATENT-APPL-SN-794968	c 15	N71-27146 *
US-PATENT-APPL-SN-765738	c 03	N71-11057 *	US-PATENT-APPL-SN-779429	c 08	N79-14108 *	US-PATENT-APPL-SN-795182	c 07	N71-24840 *
US-PATENT-APPL-SN-765978	c 37	N87-21334 *	US-PATENT-APPL-SN-779744	c 74	N87-23259 *	US-PATENT-APPL-SN-795217	c 33	N71-25351 *
US-PATENT-APPL-SN-765979	c 89	N86-22459 *	US-PATENT-APPL-SN-779847	c 15	N71-27091 *	US-PATENT-APPL-SN-795805	c 08	N88-23808 *
US-PATENT-APPL-SN-765980	c 27	N86-27451 *	US-PATENT-APPL-SN-779871	c 33	N79-20314 *	US-PATENT-APPL-SN-795945	c 37	N87-25573 *
US-PATENT-APPL-SN-765981	c 74	N87-28416 *	US-PATENT-APPL-SN-779883	c 27	N79-18052 *	US-PATENT-APPL-SN-796053	c 37	N87-25985 *
US-PATENT-APPL-SN-765991	c 35	N86-26598 *	US-PATENT-APPL-SN-780064	c 15	N71-27372 *	US-PATENT-APPL-SN-796256	c 52	N80-18691 *
US-PATENT-APPL-SN-766170	c 07	N71-24625 *	US-PATENT-APPL-SN-780065	c 12	N71-28741 *	US-PATENT-APPL-SN-796258	c 52	N82-22875 *
US-PATENT-APPL-SN-766244	c 15	N71-26721 *	US-PATENT-APPL-SN-780569	c 54	N78-31736 *	US-PATENT-APPL-SN-796263	c 27	N79-28307 *
US-PATENT-APPL-SN-766245	c 14	N71-27215 *	US-PATENT-APPL-SN-78065	c 08	N72-22162 *	US-PATENT-APPL-SN-796358	c 05	N72-11085 *
US-PATENT-APPL-SN-766697	c 09	N71-33519 *	US-PATENT-APPL-SN-780728	c 32	N78-31321 *	US-PATENT-APPL-SN-796360	c 15	N71-24696 *
US-PATENT-APPL-SN-76668	c 15	N71-26611 *	US-PATENT-APPL-SN-780729	c 33	N79-22373 *	US-PATENT-APPL-SN-796370	c 10	N71-27366 *
US-PATENT-APPL-SN-766699	c 33	N80-23559 *	US-PATENT-APPL-SN-780873	c 32	N81-27341 *	US-PATENT-APPL-SN-796405	c 14	N71-27185 *
US-PATENT-APPL-SN-76669	c 31	N72-18859 *	US-PATENT-APPL-SN-780874	c 35	N78-28411 *	US-PATENT-APPL-SN-796685	c 26	N72-28762 *
US-PATENT-APPL-SN-767741	c 09	N72-27228 *	US-PATENT-APPL-SN-780938	c 54	N80-10799 *	US-PATENT-APPL-SN-796690	c 07	N72-21119 *
US-PATENT-APPL-SN-767911	c 09	N78-31129 *	US-PATENT-APPL-SN-781812	c 36	N87-23960 *	US-PATENT-APPL-SN-796691	c 10	N71-26334 *
US-PATENT-APPL-SN-767912	c 27	N79-14214 *	US-PATENT-APPL-SN-781813	c 27	N87-14516 *	US-PATENT-APPL-SN-797056	c 15	N71-25975 *
US-PATENT-APPL-SN-768336	c 15	N71-17648 *	US-PATENT-APPL-SN-782462	c 33	N79-17133 *	US-PATENT-APPL-SN-797057	c 15	N70-22192 *
US-PATENT-APPL-SN-768470	c 09	N71-28421 *	US-PATENT-APPL-SN-782463	c 72	N79-13826 *	US-PATENT-APPL-SN-797058	c 05	N71-24738 *
US-PATENT-APPL-SN-768473	c 14	N71-17657 *	US-PATENT-APPL-SN-782464	c 32	N79-14267 *	US-PATENT-APPL-SN-797059	c 15	N71-28465 *
US-PATENT-APPL-SN-768662	c 07	N73-25160 *	US-PATENT-APPL-SN-782480	c 33	N78-32340 *	US-PATENT-APPL-SN-797210	c 28	N78-31255 *
US-PATENT-APPL-SN-768795	c 33	N79-10339 *	US-PATENT-APPL-SN-782481	c 44	N78-32542 *	US-PATENT-APPL-SN-797219	c 03	N71-33409 *
US-PATENT-APPL-SN-768942	c 46	N74-23068 *	US-PATENT-APPL-SN-782482	c 33	N79-11315 *	US-PATENT-APPL-SN-797794	c 07	N71-12396 *
US-PATENT-APPL-SN-76899	c 09	N72-22201 *	US-PATENT-APPL-SN-782544	c 14	N71-27325 *	US-PATENT-APPL-SN-797795	c 07	N71-27191 *
US-PATENT-APPL-SN-769148	c 52	N79-10724 *	US-PATENT-APPL-SN-782693	c 33	N79-10337 *	US-PATENT-APPL-SN-797796	c 28	N71-14058 *
US-PATENT-APPL-SN-769149	c 33	N78-32339 *	US-PATENT-APPL-SN-782955	c 07	N71-33108 *	US-PATENT-APPL-SN-798277	c 23	N71-26654 *
US-PATENT-APPL-SN-769592	c 15	N72-16330 *	US-PATENT-APPL-SN-782956	c 10	N71-25865 *	US-PATENT-APPL-SN-798976	c 52	N81-25661 *
US-PATENT-APPL-SN-769665	c 15	N72-11387 *	US-PATENT-APPL-SN-783374	c 15	N71-27147 *	US-PATENT-APPL-SN-799013	c 09	N71-28468 *
US-PATENT-APPL-SN-769788	c 07	N71-11300 *	US-PATENT-APPL-SN-783375	c 07	N71-24621 *	US-PATENT-APPL-SN-799023	c 37	N79-10421 *
US-PATENT-APPL-SN-770203	c 05	N71-11195 *	US-PATENT-APPL-SN-783377	c 05	N71-28619 *	US-PATENT-APPL-SN-799024	c 24	N78-17149 *
US-PATENT-APPL-SN-770209	c 08	N71-27057 *	US-PATENT-APPL-SN-783378	c 07	N71-19436 *	US-PATENT-APPL-SN-799025	c 32	N80-29539 *
US-PATENT-APPL-SN-770371	c 15	N71-24599 *	US-PATENT-APPL-SN-783379	c 15	N71-17653 *	US-PATENT-APPL-SN-799026	c 44	N79-11468 *
US-PATENT-APPL-SN-770398	c 06	N71-27254 *	US-PATENT-APPL-SN-783886	c 37	N87-17035 *	US-PATENT-APPL-SN-799353	c 09	N71-27232 *
US-PATENT-APPL-SN-770398	c 06	N72-27144 *	US-PATENT-APPL-SN-783887	c 36	N87-25567 *	US-PATENT-APPL-SN-799832	c 33	N79-15245 *
US-PATENT-APPL-SN-770417	c 06	N73-33076 *	US-PATENT-APPL-SN-783888	c 37	N87-25582 *	US-PATENT-APPL-SN-800193	c 37	N87-17038 *
US-PATENT-APPL-SN-770425	c 06	N72-20121 *	US-PATENT-APPL-SN-783890	c 74	N87-17493 *	US-PATENT-APPL-SN-800194	c 76	N88-14835 *
US-PATENT-APPL-SN-770869	c 44	N78-25527 *	US-PATENT-APPL-SN-783890	c 74	N87-25843 *	US-PATENT-APPL-SN-800204	c 06	N72-17094 *
US-PATENT-APPL-SN-770920	c 37	N86-32736 *	US-PATENT-APPL-SN-784055	c 15	N72-11390 *	US-PATENT-APPL-SN-800229	c 14	N73-32320 *
US-PATENT-APPL-SN-771216	c 14	N72-17329 *	US-PATENT-APPL-SN-784521	c 14	N71-15620 *	US-PATENT-APPL-SN-800229	c 74	N74-20008 *
US-PATENT-APPL-SN-771245	c 27	N81-14076 *	US-PATENT-APPL-SN-784544	c 15	N72-12408 *	US-PATENT-APPL-SN-800973	c 16	N71-24832 *
US-PATENT-APPL-SN-771523	c 10	N71-18772 *	US-PATENT-APPL-SN-785078	c 03	N72-27053 *	US-PATENT-APPL-SN-801290	c 37	N79-18318 *
US-PATENT-APPL-SN-771530	c 09	N72-12136 *	US-PATENT-APPL-SN-785257	c 44	N79-14526 *	US-PATENT-APPL-SN-801290	c 37	N80-26658 *
US-PATENT-APPL-SN-771537	c 37	N87-23981 *	US-PATENT-APPL-SN-785279	c 27	N81-14077 *	US-PATENT-APPL-SN-801290	c 37	N82-19640 *
US-PATENT-APPL-SN-771538	c 24	N86-25416 *	US-PATENT-APPL-SN-785546	c 10	N71-25882 *	US-PATENT-APPL-SN-801312	c 16	N71-15565 *
US-PATENT-APPL-SN-77169	c 14	N72-21408 *	US-PATENT-APPL-SN-785595	c 10	N71-24861 *	US-PATENT-APPL-SN-801336	c 02	N71-13422 *
US-PATENT-APPL-SN-771759	c 09	N71-29008 *	US-PATENT-APPL-SN-785611	c 15	N71-24600 *	US-PATENT-APPL-SN-801432	c 33	N78-32341 *
US-PATENT-APPL-SN-771760	c 10	N71-25917 *	US-PATENT-APPL-SN-785613	c 05	N72-25119 *	US-PATENT-APPL-SN-801452	c 44	N79-11471 *
US-PATENT-APPL-SN-771803	c 07	N71-12391 *	US-PATENT-APPL-SN-785615	c 05	N72-20098 *	US-PATENT-APPL-SN-801680	c 14	N71-27171 *
US-PATENT-APPL-SN-771937	c 10	N71-24862 *	US-PATENT-APPL-SN-785620	c 21	N71-27324 *	US-PATENT-APPL-SN-802769	c 76	N86-25269 *
US-PATENT-APPL-SN-772006	c 17	N71-33408 *	US-PATENT-APPL-SN-785710	c 05	N71-24730 *	US-PATENT-APPL-SN-802812	c 10	

US-PATENT-APPL-SN-802818	c 07	N71-29065 *	US-PATENT-APPL-SN-822088	c 15	N71-27135 *	US-PATENT-APPL-SN-838336	c 44	N79-11470 *
US-PATENT-APPL-SN-802820	c 10	N71-13545 *	US-PATENT-APPL-SN-822089	c 23	N72-23695 *	US-PATENT-APPL-SN-838337	c 31	N79-17029 *
US-PATENT-APPL-SN-802948	c 31	N71-33160 *	US-PATENT-APPL-SN-822090	c 16	N71-27183 *	US-PATENT-APPL-SN-838630	c 14	N71-28993 *
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US-PATENT-APPL-SN-80368	c 09	N73-20231 *	US-PATENT-APPL-SN-822519	c 14	N71-28992 *	US-PATENT-APPL-SN-838649	c 34	N86-26575 *
US-PATENT-APPL-SN-80369	c 09	N72-22198 *	US-PATENT-APPL-SN-822534	c 09	N72-11224 *	US-PATENT-APPL-SN-838654	c 27	N86-24840 *
US-PATENT-APPL-SN-803822	c 26	N79-22271 *	US-PATENT-APPL-SN-822779	c 03	N76-32140 *	US-PATENT-APPL-SN-838655	c 27	N87-22848 *
US-PATENT-APPL-SN-803822	c 26	N80-32484 *	US-PATENT-APPL-SN-82280	c 09	N72-25262 *	US-PATENT-APPL-SN-839934	c 07	N72-20140 *
US-PATENT-APPL-SN-803823	c 44	N79-11467 *	US-PATENT-APPL-SN-823061	c 44	N79-23481 *	US-PATENT-APPL-SN-839935	c 15	N71-24895 *
US-PATENT-APPL-SN-804035	c 35	N79-14348 *	US-PATENT-APPL-SN-823566	c 74	N79-14891 *	US-PATENT-APPL-SN-839941	c 07	N71-26181 *
US-PATENT-APPL-SN-804039	c 31	N87-25491 *	US-PATENT-APPL-SN-823712	c 44	N88-14492 *	US-PATENT-APPL-SN-839963	c 27	N79-33316 *
US-PATENT-APPL-SN-804040	c 32	N87-21206 *	US-PATENT-APPL-SN-823713	c 26	N88-14179 *	US-PATENT-APPL-SN-839963	c 27	N81-14078 *
US-PATENT-APPL-SN-804172	c 28	N71-26781 *	US-PATENT-APPL-SN-824024	c 44	N79-18443 *	US-PATENT-APPL-SN-839994	c 28	N71-28915 *
US-PATENT-APPL-SN-804196	c 33	N87-28831 *	US-PATENT-APPL-SN-824042	c 23	N71-29123 *	US-PATENT-APPL-SN-840002	c 08	N73-20217 *
US-PATENT-APPL-SN-805010	c 35	N87-23944 *	US-PATENT-APPL-SN-824628	c 34	N78-17337 *	US-PATENT-APPL-SN-840176	c 28	N71-27095 *
US-PATENT-APPL-SN-805011	c 54	N88-24163 *	US-PATENT-APPL-SN-824755	c 09	N70-33182 *	US-PATENT-APPL-SN-840308	c 07	N71-33613 *
US-PATENT-APPL-SN-805012	c 27	N87-21111 *	US-PATENT-APPL-SN-825253	c 16	N69-31343 *	US-PATENT-APPL-SN-840359	c 23	N71-29125 *
US-PATENT-APPL-SN-805298	c 10	N71-25899 *	US-PATENT-APPL-SN-825258	c 26	N72-21701 *	US-PATENT-APPL-SN-840816	c 27	N87-28657 *
US-PATENT-APPL-SN-805405	c 14	N71-27323 *	US-PATENT-APPL-SN-825259	c 14	N71-26788 *	US-PATENT-APPL-SN-840870	c 15	N71-26189 *
US-PATENT-APPL-SN-805406	c 07	N71-24613 *	US-PATENT-APPL-SN-825489	c 27	N81-15104 *	US-PATENT-APPL-SN-840900	c 26	N87-25455 *
US-PATENT-APPL-SN-805549	c 35	N79-16246 *	US-PATENT-APPL-SN-826202	c 37	N79-28551 *	US-PATENT-APPL-SN-840983	c 05	N70-33285 *
US-PATENT-APPL-SN-806149	c 27	N71-16223 *	US-PATENT-APPL-SN-826204	c 37	N79-10420 *	US-PATENT-APPL-SN-841278	c 33	N77-21316 *
US-PATENT-APPL-SN-806226	c 14	N71-27407 *	US-PATENT-APPL-SN-826326	c 46	N79-22679 *	US-PATENT-APPL-SN-841845	c 14	N73-32317 *
US-PATENT-APPL-SN-806440	c 51	N79-10694 *	US-PATENT-APPL-SN-82647	c 28	N72-22772 *	US-PATENT-APPL-SN-84212	c 27	N74-17283 *
US-PATENT-APPL-SN-806572	c 27	N87-25469 *	US-PATENT-APPL-SN-82648	c 12	N72-25292 *	US-PATENT-APPL-SN-842170	c 11	N70-33278 *
US-PATENT-APPL-SN-807597	c 52	N80-16725 *	US-PATENT-APPL-SN-82649	c 08	N73-30135 *	US-PATENT-APPL-SN-842171	c 11	N70-33329 *
US-PATENT-APPL-SN-807703	c 37	N78-27424 *	US-PATENT-APPL-SN-82658	c 30	N70-40309 *	US-PATENT-APPL-SN-84289	c 15	N73-14669 *
US-PATENT-APPL-SN-807762	c 27	N78-31233 *	US-PATENT-APPL-SN-827185	c 52	N89-16256 *	US-PATENT-APPL-SN-84290	c 05	N70-20137 *
US-PATENT-APPL-SN-808192	c 15	N71-27432 *	US-PATENT-APPL-SN-827464	c 74	N79-34011 *	US-PATENT-APPL-SN-843022	c 11	N70-33287 *
US-PATENT-APPL-SN-808193	c 31	N71-26537 *	US-PATENT-APPL-SN-827579	c 15	N71-24984 *	US-PATENT-APPL-SN-843032	c 28	N70-41818 *
US-PATENT-APPL-SN-808462	c 10	N71-27136 *	US-PATENT-APPL-SN-827597	c 26	N69-33482 *	US-PATENT-APPL-SN-843090	c 27	N79-22300 *
US-PATENT-APPL-SN-808510	c 33	N78-32338 *	US-PATENT-APPL-SN-828262	c 37	N79-14383 *	US-PATENT-APPL-SN-843251	c 03	N72-11062 *
US-PATENT-APPL-SN-808576	c 15	N71-27754 *	US-PATENT-APPL-SN-828909	c 28	N71-27094 *	US-PATENT-APPL-SN-843308	c 32	N79-14268 *
US-PATENT-APPL-SN-808577	c 32	N71-25360 *	US-PATENT-APPL-SN-828920	c 35	N74-22095 *	US-PATENT-APPL-SN-844225	c 05	N72-25120 *
US-PATENT-APPL-SN-808822	c 14	N73-16483 *	US-PATENT-APPL-SN-828921	c 09	N71-27001 *	US-PATENT-APPL-SN-844243	c 37	N75-29426 *
US-PATENT-APPL-SN-808922	c 28	N71-27585 *	US-PATENT-APPL-SN-828983	c 03	N71-24719 *	US-PATENT-APPL-SN-844315	c 35	N77-21392 *
US-PATENT-APPL-SN-808951	c 33	N87-23904 *	US-PATENT-APPL-SN-828984	c 08	N71-29033 *	US-PATENT-APPL-SN-844344	c 24	N79-14156 *
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US-PATENT-APPL-SN-860406	c 24	N79-17916 *	US-PATENT-APPL-SN-878541	c 33	N81-14220 *	US-PATENT-APPL-SN-893865	c 37	N81-24443 *
US-PATENT-APPL-SN-860492	c 09	N72-20199 *	US-PATENT-APPL-SN-878542	c 33	N79-28416 *	US-PATENT-APPL-SN-893903	c 60	N81-15706 *
US-PATENT-APPL-SN-860493	c 14	N72-16283 *	US-PATENT-APPL-SN-878730	c 08	N72-22164 *	US-PATENT-APPL-SN-894213	c 37	N80-23655 *
US-PATENT-APPL-SN-860635	c 28	N72-17843 *	US-PATENT-APPL-SN-878731	c 15	N71-26162 *	US-PATENT-APPL-SN-894541	c 54	N89-29953 *
US-PATENT-APPL-SN-860750	c 08	N72-22165 *	US-PATENT-APPL-SN-878916	c 60	N87-14863 *	US-PATENT-APPL-SN-897828	c 52	N81-29763 *
US-PATENT-APPL-SN-860751	c 08	N72-18184 *	US-PATENT-APPL-SN-879757	c 33	N87-10231 *	US-PATENT-APPL-SN-897829	c 44	N79-25481 *
US-PATENT-APPL-SN-860781	c 18	N72-22567 *	US-PATENT-APPL-SN-879758	c 33	N88-23942 *	US-PATENT-APPL-SN-897830	c 35	N80-21719 *
US-PATENT-APPL-SN-861152	c 14	N70-33322 *	US-PATENT-APPL-SN-880246	c 28	N72-22770 *	US-PATENT-APPL-SN-897831	c 44	N80-20808 *
US-PATENT-APPL-SN-861390	c 28	N79-28342 *	US-PATENT-APPL-SN-880247	c 09	N70-20737 *	US-PATENT-APPL-SN-897832	c 43	N81-26509 *
US-PATENT-APPL-SN-861391	c 44	N79-12541 *	US-PATENT-APPL-SN-880248	c 07	N72-11150 *	US-PATENT-APPL-SN-897840	c 31	N81-14137 *
US-PATENT-APPL-SN-861392	c 71	N79-23753 *	US-PATENT-APPL-SN-880249	c 15	N72-22482 *	US-PATENT-APPL-SN-898449	c 31	N88-29052 *
US-PATENT-APPL-SN-861396	c 35	N79-14349 *	US-PATENT-APPL-SN-880250	c 03	N72-20032 *	US-PATENT-APPL-SN-899123	c 44	N79-14528 *
US-PATENT-APPL-SN-861649	c 14	N72-17327 *	US-PATENT-APPL-SN-880271	c 15	N72-25448 *	US-PATENT-APPL-SN-899683	c 18	N87-14413 *
US-PATENT-APPL-SN-862878	c 09	N82-29330 *	US-PATENT-APPL-SN-880272	c 14	N71-27058 *	US-PATENT-APPL-SN-899828	c 32	N80-18252 *
US-PATENT-APPL-SN-862880	c 24	N79-31347 *	US-PATENT-APPL-SN-880398	c 15	N73-12487 *	US-PATENT-APPL-SN-900659	c 27	N81-17261 *
US-PATENT-APPL-SN-862921	c 31	N71-29050 *	US-PATENT-APPL-SN-880726	c 44	N80-21828 *	US-PATENT-APPL-SN-900841	c 32	N82-31583 *
US-PATENT-APPL-SN-862925	c 24	N88-18628 *	US-PATENT-APPL-SN-880727	c 35	N79-28527 *	US-PATENT-APPL-SN-900842	c 32	N79-24203 *
US-PATENT-APPL-SN-862959	c 33	N87-21232 *	US-PATENT-APPL-SN-880728	c 37	N80-10494 *	US-PATENT-APPL-SN-900843	c 44	N80-20810 *
US-PATENT-APPL-SN-863024	c 46	N80-14603 *	US-PATENT-APPL-SN-880729	c 35	N80-20563 *	US-PATENT-APPL-SN-901055	c 76	N80-32245 *
US-PATENT-APPL-SN-863276	c 16	N72-12440 *	US-PATENT-APPL-SN-880831	c 11	N72-20244 *	US-PATENT-APPL-SN-901113	c 35	N87-28884 *
US-PATENT-APPL-SN-863280	c 24	N72-33681 *	US-PATENT-APPL-SN-880838	c 37	N79-28549 *	US-PATENT-APPL-SN-901114	c 76	N88-14836 *
US-PATENT-APPL-SN-8636	c 15	N72-25451 *	US-PATENT-APPL-SN-880885	c 07	N72-12080 *	US-PATENT-APPL-SN-901496	c 23	N87-23698 *
US-PATENT-APPL-SN-863770	c 44	N79-18444 *	US-PATENT-APPL-SN-881039	c 09	N71-24842 *	US-PATENT-APPL-SN-903019	c 46	N80-10709 *
US-PATENT-APPL-SN-863773	c 44	N79-26475 *	US-PATENT-APPL-SN-881041	c 09	N72-22204 *	US-PATENT-APPL-SN-904128	c 25	N88-23845 *
US-PATENT-APPL-SN-863913	c 14	N71-28991 *	US-PATENT-APPL-SN-882122	c 14	N72-22438 *	US-PATENT-APPL-SN-904132	c 02	N89-14224 *
US-PATENT-APPL-SN-863914	c 09	N72-31235 *	US-PATENT-APPL-SN-882577	c 07	N71-27056 *	US-PATENT-APPL-SN-904134	c 18	N88-26398 *
US-PATENT-APPL-SN-863963	c 10	N71-26085 *	US-PATENT-APPL-SN-883090	c 44	N80-29834 *	US-PATENT-APPL-SN-904513	c 33	N88-14270 *
US-PATENT-APPL-SN-863967	c 11	N71-27036 *	US-PATENT-APPL-SN-883094	c 54	N79-24651 *	US-PATENT-APPL-SN-904812	c 37	N88-14359 *
US-PATENT-APPL-SN-864020	c 15	N72-17454 *	US-PATENT-APPL-SN-883523	c 09	N72-33204 *	US-PATENT-APPL-SN-90595	c 03	N72-20031 *
US-PATENT-APPL-SN-864039	c 15	N72-22483 *	US-PATENT-APPL-SN-883524	c 09	N72-21246 *	US-PATENT-APPL-SN-906297	c 44	N79-14529 *
US-PATENT-APPL-SN-864097	c 07	N71-33606 *	US-PATENT-APPL-SN-883961	c 25	N80-16116 *	US-PATENT-APPL-SN-906298	c 76	N80-18951 *
US-PATENT-APPL-SN-86417	c 07	N72-25171 *	US-PATENT-APPL-SN-88435	c 35	N74-15090 *	US-PATENT-APPL-SN-906299	c 27	N80-16158 *
US-PATENT-APPL-SN-8650	c 03	N72-25021 *	US-PATENT-APPL-SN-885049	c 33	N79-23345 *	US-PATENT-APPL-SN-907421	c 37	N81-14318 *
US-PATENT-APPL-SN-865106	c 09	N72-22202 *	US-PATENT-APPL-SN-885065	c 35	N79-18296 *	US-PATENT-APPL-SN-907431	c 37	N81-25370 *
US-PATENT-APPL-SN-865109	c 14	N71-28933 *	US-PATENT-APPL-SN-885066	c 33	N80-26599 *	US-PATENT-APPL-SN-907435	c 27	N80-10358 *
US-PATENT-APPL-SN-865274	c 09	N72-17155 *	US-PATENT-APPL-SN-885067	c 33	N79-28415 *	US-PATENT-APPL-SN-907436	c 37	N80-14398 *
US-PATENT-APPL-SN-865298	c 15	N72-11388 *	US-PATENT-APPL-SN-885521	c 03	N72-28025 *	US-PATENT-APPL-SN-907479	c 27	N80-24438 *
US-PATENT-APPL-SN-865329	c 15	N71-29132 *	US-PATENT-APPL-SN-885571	c 09	N71-28886 *	US-PATENT-APPL-SN-909100	c 37	N79-28550 *
US-PATENT-APPL-SN-86548	c 09	N72-21243 *	US-PATENT-APPL-SN-885594	c 15	N71-29133 *	US-PATENT-APPL-SN-909235	c 07	N81-19115 *
US-PATENT-APPL-SN-865811	c 09	N71-27053 *	US-PATENT-APPL-SN-886121	c 39	N87-25601 *	US-PATENT-APPL-SN-909608	c 07	N81-19116 *
US-PATENT-APPL-SN-8								

US-PATENT-APPL-SN-910794	c 14	N81-26161 *	US-PATENT-APPL-SN-945040	c 37	N82-24492 *	US-PATENT-CASE-368-120	c 35	N83-29651 *
US-PATENT-APPL-SN-910992	c 52	N81-24711 *	US-PATENT-APPL-SN-945041	c 43	N80-18498 *	US-PATENT-CASE-368-6	c 35	N83-29651 *
US-PATENT-APPL-SN-91180	c 14	N70-40240 *	US-PATENT-APPL-SN-945043	c 33	N81-33403 *	US-PATENT-CASE-368-9	c 35	N83-29651 *
US-PATENT-APPL-SN-911851	c 29	N87-18679 *	US-PATENT-APPL-SN-945044	c 54	N81-26718 *			
US-PATENT-APPL-SN-912276	c 24	N81-29163 *	US-PATENT-APPL-SN-945436	c 46	N80-24906 *	US-PATENT-CLASS-165-27	c 34	N83-34221 *
US-PATENT-APPL-SN-913432	c 18	N88-23828 *	US-PATENT-APPL-SN-946990	c 28	N80-23471 *	US-PATENT-CLASS-361-90	c 33	N83-34190 *
US-PATENT-APPL-SN-913433	c 33	N87-15413 *	US-PATENT-APPL-SN-946991	c 31	N81-27324 *			
US-PATENT-APPL-SN-913446	c 37	N87-15465 *	US-PATENT-APPL-SN-946992	c 45	N80-14579 *	US-PATENT-CLASS-D12-76	c 05	N75-25914 *
US-PATENT-APPL-SN-914260	c 44	N79-26474 *	US-PATENT-APPL-SN-946994	c 44	N79-31753 *	US-PATENT-CLASS-D71-1	c 05	N74-10907 *
US-PATENT-APPL-SN-915050	c 44	N81-12542 *	US-PATENT-APPL-SN-947000	c 28	N81-15119 *			
US-PATENT-APPL-SN-91642	c 14	N72-31446 *	US-PATENT-APPL-SN-94952	c 14	N70-34158 *	US-PATENT-CLASS-100-299	c 15	N72-20446 *
US-PATENT-APPL-SN-916654	c 07	N81-29129 *	US-PATENT-APPL-SN-949886	c 33	N80-18285 *	US-PATENT-CLASS-100-8	c 33	N74-17928 *
US-PATENT-APPL-SN-916655	c 44	N80-14472 *	US-PATENT-APPL-SN-950876	c 37	N80-31790 *	US-PATENT-CLASS-101-395	c 35	N84-22930 *
US-PATENT-APPL-SN-917125	c 35	N89-12048 *	US-PATENT-APPL-SN-950877	c 52	N81-25660 *	US-PATENT-CLASS-101-407BP	c 37	N84-12491 *
US-PATENT-APPL-SN-918533	c 32	N79-23310 *	US-PATENT-APPL-SN-951422	c 51	N81-14605 *	US-PATENT-CLASS-102-101	c 28	N71-26779 *
US-PATENT-APPL-SN-918534	c 33	N80-32650 *	US-PATENT-APPL-SN-951423	c 48	N80-18667 *	US-PATENT-CLASS-102-103	c 20	N78-32179 *
US-PATENT-APPL-SN-918535	c 35	N80-18357 *	US-PATENT-APPL-SN-951828	c 37	N80-29703 *	US-PATENT-CLASS-102-105	c 33	N72-17947 *
US-PATENT-APPL-SN-918537	c 26	N80-14229 *	US-PATENT-APPL-SN-951829	c 33	N80-18287 *	US-PATENT-CLASS-102-105	c 33	N72-25911 *
US-PATENT-APPL-SN-918705	c 52	N82-33996 *	US-PATENT-APPL-SN-951830	c 28	N80-28536 *	US-PATENT-CLASS-102-105	c 33	N73-25952 *
US-PATENT-APPL-SN-920878	c 24	N78-27184 *	US-PATENT-APPL-SN-951831	c 08	N73-12175 *	US-PATENT-CLASS-102-105	c 27	N74-27037 *
US-PATENT-APPL-SN-920879	c 44	N79-31752 *	US-PATENT-APPL-SN-95189	c 74	N77-21941 *	US-PATENT-CLASS-102-105	c 24	N79-25142 *
US-PATENT-APPL-SN-921572	c 24	N87-18613 *	US-PATENT-APPL-SN-953313	c 32	N81-14187 *	US-PATENT-CLASS-102-21.6	c 46	N79-22679 *
US-PATENT-APPL-SN-921573	c 37	N87-14704 *	US-PATENT-APPL-SN-953314	c 37	N81-14319 *	US-PATENT-CLASS-102-28EB	c 28	N74-27425 *
US-PATENT-APPL-SN-921574	c 31	N90-19425 *	US-PATENT-APPL-SN-953389	c 74	N80-27185 *	US-PATENT-CLASS-102-28R	c 28	N79-11231 *
US-PATENT-APPL-SN-921577	c 37	N89-13785 *	US-PATENT-APPL-SN-953390	c 74	N80-21138 *	US-PATENT-CLASS-102-28R	c 27	N82-24339 *
US-PATENT-APPL-SN-921626	c 25	N80-23383 *	US-PATENT-APPL-SN-953391	c 72	N80-33186 *	US-PATENT-CLASS-102-34.4	c 07	N72-25171 *
US-PATENT-APPL-SN-921627	c 33	N80-14332 *	US-PATENT-APPL-SN-956160	c 32	N80-18253 *	US-PATENT-CLASS-102-378	c 01	N83-35992 *
US-PATENT-APPL-SN-923758	c 20	N78-27176 *	US-PATENT-APPL-SN-956161	c 27	N79-11215 *	US-PATENT-CLASS-102-39	c 20	N78-24275 *
US-PATENT-APPL-SN-923758	c 20	N80-10278 *	US-PATENT-APPL-SN-956166	c 33	N81-19393 *	US-PATENT-CLASS-102-49.3	c 20	N77-17143 *
US-PATENT-APPL-SN-924297	c 71	N90-12289 *	US-PATENT-APPL-SN-956168	c 27	N81-25209 *	US-PATENT-CLASS-102-49.5	c 31	N71-15687 *
US-PATENT-APPL-SN-924398	c 14	N87-25344 *	US-PATENT-APPL-SN-956529	c 35	N80-26635 *	US-PATENT-CLASS-102-49.5	c 15	N71-22874 *
US-PATENT-APPL-SN-924399	c 76	N88-24545 *	US-PATENT-APPL-SN-957452	c 32	N80-24510 *	US-PATENT-CLASS-102-49.5	c 31	N71-23008 *
US-PATENT-APPL-SN-924467	c 23	N88-24692 *	US-PATENT-APPL-SN-958573	c 25	N80-20334 *	US-PATENT-CLASS-102-49.5	c 31	N73-14853 *
US-PATENT-APPL-SN-924470	c 23	N90-19300 *	US-PATENT-APPL-SN-958575	c 27	N80-24437 *	US-PATENT-CLASS-102-49.7	c 28	N73-24784 *
US-PATENT-APPL-SN-924472	c 32	N87-18692 *	US-PATENT-APPL-SN-961831	c 33	N81-25299 *	US-PATENT-CLASS-102-49.7	c 20	N78-24275 *
US-PATENT-APPL-SN-924474	c 23	N88-26404 *	US-PATENT-APPL-SN-961832	c 37	N81-24442 *	US-PATENT-CLASS-102-49.8	c 28	N73-24784 *
US-PATENT-APPL-SN-925189	c 76	N88-24544 *	US-PATENT-APPL-SN-961833	c 37	N82-21587 *	US-PATENT-CLASS-102-49	c 33	N70-36846 *
US-PATENT-APPL-SN-9251	c 03	N70-34646 *	US-PATENT-APPL-SN-964009	c 02	N80-20224 *	US-PATENT-CLASS-102-49	c 28	N70-38181 *
US-PATENT-APPL-SN-927972	c 74	N89-14078 *	US-PATENT-APPL-SN-964754	c 33	N80-20487 *	US-PATENT-CLASS-102-49	c 03	N70-39930 *
US-PATENT-APPL-SN-927987	c 62	N90-19776 *	US-PATENT-APPL-SN-964754	c 44	N81-29524 *	US-PATENT-CLASS-102-49	c 15	N70-41679 *
US-PATENT-APPL-SN-927992	c 37	N87-18818 *	US-PATENT-APPL-SN-965367	c 33	N81-14221 *	US-PATENT-CLASS-102-49	c 28	N70-41967 *
US-PATENT-APPL-SN-928128	c 44	N80-18551 *	US-PATENT-APPL-SN-965368	c 74	N81-17888 *	US-PATENT-CLASS-102-49	c 31	N71-10582 *
US-PATENT-APPL-SN-928129	c 35	N80-14371 *	US-PATENT-APPL-SN-969755	c 05	N81-19087 *	US-PATENT-CLASS-102-49	c 15	N71-13789 *
US-PATENT-APPL-SN-928130	c 35	N80-20559 *	US-PATENT-APPL-SN-969756	c 37	N81-14317 *	US-PATENT-CLASS-102-49	c 31	N71-15692 *
US-PATENT-APPL-SN-928131	c 09	N79-31228 *	US-PATENT-APPL-SN-969757	c 24	N84-16282 *	US-PATENT-CLASS-102-49	c 31	N71-17730 *
US-PATENT-APPL-SN-928133	c 44	N80-18550 *	US-PATENT-APPL-SN-969759	c 25	N82-11444 *	US-PATENT-CLASS-102-504	c 15	N82-24272 *
US-PATENT-APPL-SN-928137	c 52	N80-23969 *	US-PATENT-APPL-SN-969760	c 39	N81-25400 *	US-PATENT-CLASS-102-50	c 31	N71-24750 *
US-PATENT-APPL-SN-929083	c 36	N80-16321 *	US-PATENT-APPL-SN-969761	c 32	N82-12297 *	US-PATENT-CLASS-102-56R	c 02	N81-14968 *
US-PATENT-APPL-SN-929084	c 37	N81-19455 *	US-PATENT-APPL-SN-969762	c 33	N82-29539 *	US-PATENT-CLASS-102-70.2A	c 28	N74-27425 *
US-PATENT-APPL-SN-929086	c 24	N81-13999 *	US-PATENT-APPL-SN-971112	c 21	N70-34539 *	US-PATENT-CLASS-102-70.2R	c 19	N74-15089 *
US-PATENT-APPL-SN-929087	c 35	N80-28687 *	US-PATENT-APPL-SN-971473	c 23	N81-29160 *	US-PATENT-CLASS-102-70.2	c 09	N71-18599 *
US-PATENT-APPL-SN-929088	c 74	N80-24149 *	US-PATENT-APPL-SN-971474	c 20	N82-18314 *	US-PATENT-CLASS-102-70.2R	c 28	N74-27425 *
US-PATENT-APPL-SN-929862	c 02	N89-12551 *	US-PATENT-APPL-SN-971475	c 27	N81-24257 *	US-PATENT-CLASS-102-70R	c 20	N78-24275 *
US-PATENT-APPL-SN-929865	c 18	N89-12621 *	US-PATENT-APPL-SN-971596	c 27	N80-32516 *	US-PATENT-CLASS-102-90	c 15	N74-27360 *
US-PATENT-APPL-SN-929869	c 35	N87-23941 *	US-PATENT-APPL-SN-972252	c 35	N81-33448 *	US-PATENT-CLASS-102-92.1	c 02	N81-14968 *
US-PATENT-APPL-SN-929875	c 18	N88-28958 *	US-PATENT-APPL-SN-97343	c 10	N72-27246 *	US-PATENT-CLASS-102-95	c 11	N73-32152 *
US-PATENT-APPL-SN-929875	c 18	N89-28554 *	US-PATENT-APPL-SN-974292	c 26	N80-23419 *	US-PATENT-CLASS-102-99	c 28	N77-10213 *
US-PATENT-APPL-SN-930217	c 25	N88-24732 *	US-PATENT-APPL-SN-974471	c 32	N81-14185 *	US-PATENT-CLASS-103.5R	c 04	N73-27052 *
US-PATENT-APPL-SN-931090	c 37	N80-26658 *	US-PATENT-APPL-SN-974472	c 37	N81-15363 *	US-PATENT-CLASS-103-1	c 26	N71-21824 *
US-PATENT-APPL-SN-931090	c 37	N82-19540 *	US-PATENT-APPL-SN-974473	c 60	N81-27814 *	US-PATENT-CLASS-103-37	c 28	N71-14058 *
US-PATENT-APPL-SN-931217	c 37	N80-32716 *	US-PATENT-APPL-SN-974474	c 25	N81-19242 *	US-PATENT-CLASS-103-48	c 15	N71-24042 *
US-PATENT-APPL-SN-931218	c 20	N80-18097 *	US-PATENT-APPL-SN-974475	c 33	N81-17349 *	US-PATENT-CLASS-104-DIG.4	c 44	N84-23019 *
US-PATENT-APPL-SN-933186	c 27	N80-32515 *	US-PATENT-APPL-SN-974476	c 52	N81-14613 *	US-PATENT-CLASS-104-138R	c 85	N74-34672 *
US-PATENT-APPL-SN-93329	c 09	N73-26195 *	US-PATENT-APPL-SN-97472	c 14	N73-28487 *	US-PATENT-CLASS-104-139	c 05	N71-28619 *
US-PATENT-APPL-SN-933941	c 33	N89-14385 *	US-PATENT-APPL-SN-97829	c 06	N73-13129 *	US-PATENT-CLASS-104-172.1	c 18	N88-26398 *
US-PATENT-APPL-SN-933961	c 76	N87-29360 *	US-PATENT-APPL-SN-98517	c 09	N72-25250 *	US-PATENT-CLASS-104-1	c 05	N71-28619 *
US-PATENT-APPL-SN-933962	c 25	N88-29002 *	US-PATENT-APPL-SN-98640	c 08	N72-25253 *	US-PATENT-CLASS-104-23FS	c 85	N74-34672 *
US-PATENT-APPL-SN-933963	c 05	N88-28914 *	US-PATENT-APPL-SN-98772	c 09	N73-12176 *	US-PATENT-CLASS-104-281	c 37	N85-20337 *
US-PATENT-APPL-SN-934397	c 18	N88-23827 *	US-PATENT-APPL-SN-98773	c 15	N72-22486 *	US-PATENT-CLASS-104-282	c 37	N83-32067 *
US-PATENT-APPL-SN-934576	c 35	N80-18358 *	US-PATENT-APPL-SN-98774	c 14	N73-19419 *	US-PATENT-CLASS-104-284	c 37	N85-20337 *
US-PATENT-APPL-SN-935827	c 37	N80-18393 *	US-PATENT-APPL-SN-98798	c 09	N73-13209 *	US-PATENT-CLASS-104-290	c 37	N83-32067 *
US-PATENT-APPL-SN-93714	c 44	N82-28780 *	US-PATENT-APPL-SN-99174	c 14	N72-33377 *	US-PATENT-CLASS-104-35	c 18	N88-26398 *
US-PATENT-APPL-SN-938293	c 32	N80-32605 *	US-PATENT-APPL-SN-99175	c 09	N72-25258 *	US-PATENT-CLASS-104-49	c 18	N88-26398 *
US-PATENT-APPL-SN-938297	c 25	N81-14015 *	US-PATENT-APPL-SN-99198	c 31	N73-32749 *	US-PATENT-CLASS-104-83	c 37	N82-21587 *
US-PATENT-APPL-SN-938298	c 33	N81-17348 *	US-PATENT-APPL-SN-99201	c 15	N73-25512 *	US-PATENT-CLASS-105-1A	c 37	N82-21587 *
US-PATENT-APPL-SN-938299	c 33	N81-19389 *	US-PATENT-APPL-SN-99201	c 37	N74-20063 *	US-PATENT-CLASS-105-161	c 43	N79-26439 *
US-PATENT-APPL-SN-938300	c 37	N80-23654 *	US-PATENT-APPL-SN-99524	c 06	N72-27144 *	US-PATENT-CLASS-105-171	c 37	N82-21587 *
US-PATENT-APPL-SN-938579	c 76	N80-32244 *	US-PATENT-APPL-SN-99901	c 37	N74-10474 *	US-PATENT-CLASS-105-180	c 37	N82-21587 *
US-PATENT-APPL-SN-938581	c 04	N80-32359 *	US-PATENT-APPL-SN-99903	c 11	N73-12265 *	US-PATENT-CLASS-105-2R	c 85	N82-33288 *
US-PATENT-APPL-SN-938582	c 37	N80-23653 *				US-PATENT-CLASS-105-218R	c 37	N82-21587 *
US-PATENT-APPL-SN-94049	c 14	N73-20476 *	US-PATENT-CASE-165-104.25	c 34	N87-28867 *	US-PATENT-CLASS-106-1.2	c 44	N79-31752 *
US-PATENT-APPL-SN-940688	c 24	N79-24062 *	US-PATENT-CASE-165-104.26	c 34	N87-28867 *	US-PATENT-CLASS-106-13	c 23	N75-14834 *
US-PATENT-APPL-SN-940689	c 35	N80-28686 *	US-PATENT-CASE-165-13	c 34	N87-28867 *	US-PATENT-CLASS-106-15FP	c 27	N74-27037 *
US-PATENT-APPL-SN-940970	c 72	N80-27163 *	US-PATENT-CASE-165-1	c 34	N87-28867 *	US-PATENT-CLASS-106-15FP	c 27	N76-24405 *
US-PATENT-APPL-SN-941711	c 24	N80-26388 *	US-PATENT-CASE-165-32	c 34	N87-28867 *	US-PATENT-CLASS-106-15FP	c 24	N78-15180 *
US-PATENT-APPL-SN-942158	c 34	N88-29133 *	US-PATENT-CASE-165-41	c 34	N87-28867 *	US-PATENT-CLASS-106-15R	c 23	N75-14834 *
US-PATENT-APPL-SN-942159	c 37	N87-18817 *	US-PATENT-CASE-179-146-R	c 05	N83-27975 *	US-PATENT-CLASS-106-15	c 18	N71-14014 *
US-PATENT-APPL-SN-94259	c 27	N70-35534 *	US-PATENT-CASE-179-179	c 05	N83-27975 *	US-PATENT-CLASS-106-15	c 18	N71-15469 *
US-PATENT-APPL-SN-943086	c 37	N80-32717 *	US-PATENT-CASE-244-121	c 05	N83-19737 *	US-PATENT-CLASS-106-18.16	c 27	N82-16238 *
US-PATENT-APPL-SN-943087	c 15	N78-32168 *	US-PATENT-CASE-244-129.4	c 05	N83-19737 *	US-PATENT-CLASS-106-18.24	c 27	N82-16238 *
US-PATENT-APPL-SN-943088	c 18	N80-14183 *	US-PATENT-CASE-292-254	c 05	N83-19737 *	US-PATENT-CLASS-106-197	c 25	N82-29370 *
US-PATENT-APPL-SN-943089	c 74	N80-21140 *	US-PATENT-CASE-356-129	c 36	N83-29680 *	US-PATENT-CLASS-106-1	c 44	N79-31752 *
US-PATENT-APPL-SN-943346	c 34	N88-29132 *	US-PATENT-CASE-367-906	c 05	N83-27975 *	US-PATENT-CLASS-106-209	c 05	N72-25120 *
US-PATENT-APPL-SN-94347	c 05	N72-25122 *	US-PATENT-CASE-368-10	c 35	N83-29651 *	US-PATENT-CLASS-106-286	c 18	N72-22566 *
US-PATENT-APPL-SN-94369	c 07	N71-28965 *	US-PATENT-CASE-368-118	c 35	N83-29651 *	US-PATENT-CLASS-106-287SB	c 23	N75-14834 *
US-PATENT-APPL-SN-94374	c 14	N72-25411 *	US-PATENT-CASE-368-119	c 35	N83-29651 *	US-PATENT-CLASS-106-288B	c 18	N

US-PATENT-CLASS-106-292	c 18	N72-17532 *	US-PATENT-CLASS-117-126R	c 37	N75-26371 *	US-PATENT-CLASS-118-6	c 51	N77-27677 *
US-PATENT-CLASS-106-292	c 27	N77-30237 *	US-PATENT-CLASS-117-129	c 37	N74-21063 *	US-PATENT-CLASS-118-7	c 51	N77-27677 *
US-PATENT-CLASS-106-296	c 18	N71-26772 *	US-PATENT-CLASS-117-129	c 27	N75-27160 *	US-PATENT-CLASS-118-9	c 51	N77-27677 *
US-PATENT-CLASS-106-296	c 27	N77-30237 *	US-PATENT-CLASS-117-130R	c 15	N73-32360 *	US-PATENT-CLASS-119-15	c 11	N71-22875 *
US-PATENT-CLASS-106-296	c 24	N79-14156 *	US-PATENT-CLASS-117-132B	c 27	N74-23125 *	US-PATENT-CLASS-119-17	c 51	N81-32829 *
US-PATENT-CLASS-106-299	c 18	N72-17532 *	US-PATENT-CLASS-117-132	c 06	N72-25150 *	US-PATENT-CLASS-119-18	c 51	N81-32829 *
US-PATENT-CLASS-106-299	c 27	N77-30237 *	US-PATENT-CLASS-117-135.5	c 23	N75-14834 *	US-PATENT-CLASS-119-29	c 51	N78-27733 *
US-PATENT-CLASS-106-306	c 24	N76-24363 *	US-PATENT-CLASS-117-138.8R	c 15	N73-32360 *	US-PATENT-CLASS-119-51.11	c 35	N78-19466 *
US-PATENT-CLASS-106-39.5	c 27	N78-19302 *	US-PATENT-CLASS-117-151	c 15	N73-32360 *	US-PATENT-CLASS-119-51.13	c 51	N74-15778 *
US-PATENT-CLASS-106-39R	c 18	N73-14584 *	US-PATENT-CLASS-117-152	c 15	N72-25452 *	US-PATENT-CLASS-119-51.5	c 51	N74-15778 *
US-PATENT-CLASS-106-39	c 26	N72-28762 *	US-PATENT-CLASS-117-16R	c 15	N72-25452 *	US-PATENT-CLASS-119-51R	c 51	N74-15778 *
US-PATENT-CLASS-106-40	c 18	N71-22998 *	US-PATENT-CLASS-117-160R	c 15	N73-32360 *	US-PATENT-CLASS-119-52AF	c 51	N74-15778 *
US-PATENT-CLASS-106-43	c 27	N78-17206 *	US-PATENT-CLASS-117-161P	c 06	N73-27980 *	US-PATENT-CLASS-119-54	c 51	N74-15778 *
US-PATENT-CLASS-106-43	c 37	N81-25371 *	US-PATENT-CLASS-117-161UA	c 25	N75-12087 *	US-PATENT-CLASS-119-72.5	c 35	N78-19466 *
US-PATENT-CLASS-106-46	c 26	N72-28762 *	US-PATENT-CLASS-117-161UN	c 06	N73-27980 *	US-PATENT-CLASS-119-96	c 05	N71-28619 *
US-PATENT-CLASS-106-48	c 27	N75-27160 *	US-PATENT-CLASS-117-161UN	c 27	N74-23125 *	US-PATENT-CLASS-121-38	c 15	N70-35409 *
US-PATENT-CLASS-106-48	c 27	N78-32260 *	US-PATENT-CLASS-117-161UN	c 25	N75-12087 *	US-PATENT-CLASS-121-38	c 02	N71-29128 *
US-PATENT-CLASS-106-50	c 27	N82-29452 *	US-PATENT-CLASS-117-161UZ	c 25	N75-12087 *	US-PATENT-CLASS-122-32	c 33	N72-20915 *
US-PATENT-CLASS-106-50	c 27	N82-29454 *	US-PATENT-CLASS-117-161	c 06	N72-25150 *	US-PATENT-CLASS-122-366	c 34	N85-29180 *
US-PATENT-CLASS-106-50	c 27	N82-29455 *	US-PATENT-CLASS-117-2R	c 32	N74-27612 *	US-PATENT-CLASS-122-366	c 34	N86-27593 *
US-PATENT-CLASS-106-52	c 37	N74-21063 *	US-PATENT-CLASS-117-200	c 09	N72-25259 *	US-PATENT-CLASS-122-366	c 34	N88-29133 *
US-PATENT-CLASS-106-52	c 27	N82-29451 *	US-PATENT-CLASS-117-201	c 15	N69-21460 *	US-PATENT-CLASS-122-366	c 34	N89-14392 *
US-PATENT-CLASS-106-52	c 27	N82-29452 *	US-PATENT-CLASS-117-201	c 18	N71-16046 *	US-PATENT-CLASS-122-4D	c 25	N82-11144 *
US-PATENT-CLASS-106-52	c 27	N82-29454 *	US-PATENT-CLASS-117-201	c 03	N72-24037 *	US-PATENT-CLASS-123-DIG.12	c 37	N76-18457 *
US-PATENT-CLASS-106-52	c 27	N82-29455 *	US-PATENT-CLASS-117-201	c 25	N75-26043 *	US-PATENT-CLASS-123-DIG.12	c 44	N78-33526 *
US-PATENT-CLASS-106-54	c 27	N75-27160 *	US-PATENT-CLASS-117-211	c 15	N72-25447 *	US-PATENT-CLASS-123-DIG.12	c 28	N80-10374 *
US-PATENT-CLASS-106-54	c 27	N76-22377 *	US-PATENT-CLASS-117-212	c 09	N71-20705 *	US-PATENT-CLASS-123-DIG.8	c 37	N77-31497 *
US-PATENT-CLASS-106-54	c 27	N76-23426 *	US-PATENT-CLASS-117-212	c 15	N71-29032 *	US-PATENT-CLASS-123-1A	c 44	N76-29700 *
US-PATENT-CLASS-106-54	c 27	N78-32260 *	US-PATENT-CLASS-117-212	c 26	N72-28762 *	US-PATENT-CLASS-123-1A	c 44	N78-33526 *
US-PATENT-CLASS-106-54	c 27	N82-29452 *	US-PATENT-CLASS-117-212	c 15	N72-25447 *	US-PATENT-CLASS-123-102	c 11	N72-20244 *
US-PATENT-CLASS-106-54	c 27	N82-29454 *	US-PATENT-CLASS-117-217	c 26	N72-28762 *	US-PATENT-CLASS-123-119A	c 37	N77-31497 *
US-PATENT-CLASS-106-55	c 18	N73-14584 *	US-PATENT-CLASS-117-21	c 18	N69-39895 *	US-PATENT-CLASS-123-119E	c 37	N76-18457 *
US-PATENT-CLASS-106-58	c 18	N73-14584 *	US-PATENT-CLASS-117-224	c 15	N71-28582 *	US-PATENT-CLASS-123-120	c 37	N76-18457 *
US-PATENT-CLASS-106-63	c 18	N73-14584 *	US-PATENT-CLASS-117-228	c 06	N73-27980 *	US-PATENT-CLASS-123-121	c 37	N76-18457 *
US-PATENT-CLASS-106-65	c 27	N78-19302 *	US-PATENT-CLASS-117-234	c 76	N79-16678 *	US-PATENT-CLASS-123-122AB	c 28	N72-22772 *
US-PATENT-CLASS-106-73.5	c 27	N78-19302 *	US-PATENT-CLASS-117-235	c 76	N79-16678 *	US-PATENT-CLASS-123-122AB	c 37	N77-31497 *
US-PATENT-CLASS-106-74	c 18	N69-39979 *	US-PATENT-CLASS-117-237	c 76	N79-16678 *	US-PATENT-CLASS-123-122E	c 07	N77-23106 *
US-PATENT-CLASS-106-74	c 24	N79-31347 *	US-PATENT-CLASS-117-239	c 76	N79-16678 *	US-PATENT-CLASS-123-122E	c 37	N78-10467 *
US-PATENT-CLASS-106-84	c 18	N71-24183 *	US-PATENT-CLASS-117-240	c 76	N79-16678 *	US-PATENT-CLASS-123-148CB	c 33	N77-28385 *
US-PATENT-CLASS-106-84	c 18	N71-24184 *	US-PATENT-CLASS-117-33.3	c 70	N74-13436 *	US-PATENT-CLASS-123-148DC	c 37	N79-11405 *
US-PATENT-CLASS-106-84	c 18	N72-22566 *	US-PATENT-CLASS-117-35R	c 06	N73-13128 *	US-PATENT-CLASS-123-148E	c 33	N77-28385 *
US-PATENT-CLASS-106-84	c 18	N72-23581 *	US-PATENT-CLASS-117-35	c 32	N79-19186 *	US-PATENT-CLASS-123-148E	c 37	N79-11405 *
US-PATENT-CLASS-106-84	c 24	N79-14156 *	US-PATENT-CLASS-117-37	c 15	N72-25452 *	US-PATENT-CLASS-123-179R	c 28	N80-10374 *
US-PATENT-CLASS-106-84	c 24	N79-31347 *	US-PATENT-CLASS-117-38	c 24	N75-33181 *	US-PATENT-CLASS-123-193-P	c 37	N88-23981 *
US-PATENT-CLASS-106-88	c 18	N71-16124 *	US-PATENT-CLASS-117-43	c 31	N79-21227 *	US-PATENT-CLASS-123-197R	c 37	N83-36483 *
US-PATENT-CLASS-108-136	c 09	N75-12968 *	US-PATENT-CLASS-117-45	c 74	N74-20008 *	US-PATENT-CLASS-123-37	c 37	N77-31497 *
US-PATENT-CLASS-108-3	c 54	N88-24163 *	US-PATENT-CLASS-117-46FS	c 24	N75-33181 *	US-PATENT-CLASS-123-3	c 44	N76-18642 *
US-PATENT-CLASS-108-7	c 54	N88-24163 *	US-PATENT-CLASS-117-46	c 15	N71-16077 *	US-PATENT-CLASS-123-3	c 44	N76-29700 *
US-PATENT-CLASS-109-49.5	c 31	N81-19343 *	US-PATENT-CLASS-117-47R	c 15	N72-25452 *	US-PATENT-CLASS-123-3	c 44	N77-10636 *
US-PATENT-CLASS-109-58.5	c 31	N81-19343 *	US-PATENT-CLASS-117-50	c 15	N71-15610 *	US-PATENT-CLASS-123-3	c 37	N77-31497 *
US-PATENT-CLASS-110-186	c 25	N84-16276 *	US-PATENT-CLASS-117-62	c 15	N72-25447 *	US-PATENT-CLASS-123-3	c 44	N78-33526 *
US-PATENT-CLASS-110-218	c 31	N81-15154 *	US-PATENT-CLASS-117-62	c 15	N72-25452 *	US-PATENT-CLASS-123-3	c 28	N80-10374 *
US-PATENT-CLASS-110-229	c 31	N81-15154 *	US-PATENT-CLASS-117-65.2	c 18	N71-10772 *	US-PATENT-CLASS-123-41.33	c 07	N77-23106 *
US-PATENT-CLASS-110-232	c 31	N81-15154 *	US-PATENT-CLASS-117-66	c 15	N73-32360 *	US-PATENT-CLASS-123-41.33	c 37	N78-10467 *
US-PATENT-CLASS-110-234	c 25	N82-11144 *	US-PATENT-CLASS-117-69	c 18	N70-36400 *	US-PATENT-CLASS-123-59E	c 37	N77-31497 *
US-PATENT-CLASS-110-245	c 25	N82-11144 *	US-PATENT-CLASS-117-69	c 15	N71-16075 *	US-PATENT-CLASS-123-78E	c 37	N83-36483 *
US-PATENT-CLASS-110-255	c 25	N82-11144 *	US-PATENT-CLASS-117-6	c 14	N71-20461 *	US-PATENT-CLASS-123-89A	c 37	N76-18457 *
US-PATENT-CLASS-110-262	c 25	N84-16276 *	US-PATENT-CLASS-117-6	c 27	N81-15104 *	US-PATENT-CLASS-124-11R	c 75	N76-17951 *
US-PATENT-CLASS-110-263	c 25	N84-16276 *	US-PATENT-CLASS-117-72	c 35	N75-25122 *	US-PATENT-CLASS-124-1	c 75	N76-17951 *
US-PATENT-CLASS-110-265	c 25	N84-16276 *	US-PATENT-CLASS-117-8.5	c 24	N75-33181 *	US-PATENT-CLASS-124-56	c 18	N86-20469 *
US-PATENT-CLASS-110-266	c 25	N82-11144 *	US-PATENT-CLASS-117-93.1GD	c 25	N75-12087 *	US-PATENT-CLASS-124-6	c 09	N77-19076 *
US-PATENT-CLASS-110-343	c 31	N81-15154 *	US-PATENT-CLASS-117-93.16D	c 15	N72-25447 *	US-PATENT-CLASS-125-13R	c 37	N85-21650 *
US-PATENT-CLASS-110-347	c 31	N81-15154 *	US-PATENT-CLASS-117-93.3	c 15	N72-25452 *	US-PATENT-CLASS-125-15	c 37	N85-21650 *
US-PATENT-CLASS-112-402	c 18	N71-26285 *	US-PATENT-CLASS-117-93.3	c 37	N75-15992 *	US-PATENT-CLASS-125-1	c 46	N74-23069 *
US-PATENT-CLASS-113-116	c 15	N71-15597 *	US-PATENT-CLASS-117-95	c 24	N74-19769 *	US-PATENT-CLASS-125-20	c 31	N83-27058 *
US-PATENT-CLASS-114-112	c 18	N90-19278 *	US-PATENT-CLASS-117-95	c 36	N75-15029 *	US-PATENT-CLASS-125-21	c 37	N80-29703 *
US-PATENT-CLASS-114-122	c 02	N73-26006 *	US-PATENT-CLASS-117-97	c 36	N75-15029 *	US-PATENT-CLASS-125-23R	c 76	N80-18951 *
US-PATENT-CLASS-114-16.6	c 37	N76-22540 *	US-PATENT-CLASS-118-11	c 15	N71-17647 *	US-PATENT-CLASS-125-23R	c 37	N82-32730 *
US-PATENT-CLASS-114-201R	c 18	N90-19278 *	US-PATENT-CLASS-118-300	c 71	N84-16940 *	US-PATENT-CLASS-125-3	c 46	N74-23069 *
US-PATENT-CLASS-114-66.5	c 12	N70-33305 *	US-PATENT-CLASS-118-308	c 17	N71-24911 *	US-PATENT-CLASS-126-DIG.1	c 44	N85-30474 *
US-PATENT-CLASS-114-67R	c 02	N88-14071 *	US-PATENT-CLASS-118-313	c 51	N77-27677 *	US-PATENT-CLASS-126-263	c 44	N77-32581 *
US-PATENT-CLASS-115-103.5	c 51	N75-13502 *	US-PATENT-CLASS-118-320	c 37	N82-24492 *	US-PATENT-CLASS-126-263	c 44	N78-17460 *
US-PATENT-CLASS-116-DIG.43	c 02	N89-12551 *	US-PATENT-CLASS-118-423	c 37	N82-12441 *	US-PATENT-CLASS-126-263	c 44	N80-20808 *
US-PATENT-CLASS-116-114.5	c 35	N75-25122 *	US-PATENT-CLASS-118-43	c 25	N75-29192 *	US-PATENT-CLASS-126-263	c 35	N85-29214 *
US-PATENT-CLASS-116-114AH	c 14	N72-25411 *	US-PATENT-CLASS-118-48	c 25	N75-26043 *	US-PATENT-CLASS-126-270	c 09	N70-40234 *
US-PATENT-CLASS-116-114AH	c 35	N75-33367 *	US-PATENT-CLASS-118-49.1	c 15	N72-32487 *	US-PATENT-CLASS-126-270	c 03	N70-41580 *
US-PATENT-CLASS-116-117	c 14	N70-42074 *	US-PATENT-CLASS-118-49.1	c 31	N75-12161 *	US-PATENT-CLASS-126-270	c 34	N74-23039 *
US-PATENT-CLASS-116-265	c 02	N89-12551 *	US-PATENT-CLASS-118-49.1	c 25	N75-26043 *	US-PATENT-CLASS-126-270	c 44	N76-14595 *
US-PATENT-CLASS-117-104	c 18	N71-26100 *	US-PATENT-CLASS-118-49.5	c 09	N71-26701 *	US-PATENT-CLASS-126-270	c 44	N76-23675 *
US-PATENT-CLASS-117-105.2	c 37	N74-11301 *	US-PATENT-CLASS-118-49	c 25	N79-28253 *	US-PATENT-CLASS-126-270	c 44	N76-24696 *
US-PATENT-CLASS-117-105.2	c 24	N75-33181 *	US-PATENT-CLASS-118-50.1	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 35	N77-20401 *
US-PATENT-CLASS-117-105.5	c 15	N73-32360 *	US-PATENT-CLASS-118-50.1	c 36	N84-22944 *	US-PATENT-CLASS-126-270	c 44	N77-32582 *
US-PATENT-CLASS-117-105	c 15	N73-32360 *	US-PATENT-CLASS-118-500	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N78-15560 *
US-PATENT-CLASS-117-106A	c 70	N74-13436 *	US-PATENT-CLASS-118-500	c 37	N82-12441 *	US-PATENT-CLASS-126-270	c 44	N78-19599 *
US-PATENT-CLASS-117-106A	c 37	N75-15992 *	US-PATENT-CLASS-118-500	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N78-31526 *
US-PATENT-CLASS-117-106A	c 25	N75-26043 *	US-PATENT-CLASS-118-500	c 71	N84-16940 *	US-PATENT-CLASS-126-270	c 44	N79-11471 *
US-PATENT-CLASS-117-106	c 33	N71-14032 *	US-PATENT-CLASS-118-503	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N79-14526 *
US-PATENT-CLASS-117-107.2	c 25	N75-26043 *	US-PATENT-CLASS-118-505	c 37	N82-24492 *	US-PATENT-CLASS-126-270	c 44	N79-23481 *
US-PATENT-CLASS-117-107	c 15	N72-25447 *	US-PATENT-CLASS-118-50	c 37	N78-17383 *	US-PATENT-CLASS-126-270	c 44	N79-24432 *
US-PATENT-CLASS-117-107	c 76	N79-16678 *	US-PATENT-CLASS-118-50	c 37	N81-33482 *	US-PATENT-CLASS-126-271	c 44	N75-32581 *
US-PATENT-CLASS-117-119	c 18	N71-16105 *	US-PATENT-CLASS-118-50	c 71	N84-16940 *	US-PATENT-CLASS-126-271	c 44	N76-14602 *
US-PATENT-CLASS-117-119	c 76	N79-16678 *	US-PATENT-CLASS-118-52	c 37	N81-33482 *	US-PATENT-CLASS-126-271	c 44	N76-22657 *
US-PATENT-CLASS-117-124C	c 15	N72-25452 *	US-PATENT-CLASS-118-57	c 71	N84-16940 *	US-PATENT-CLASS-126-271	c 44	N76-24696 *
US-PATENT-CLASS-117-124F	c 23	N75-14834 *	US-PATENT-CLASS-118-624	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 35	N77-20401 *
US-PATENT-CLASS-117-126GM	c 37	N75-26371 *	US-PATENT-CLASS-118-62	c 71	N84-16940 *	US-PATENT-CLASS-126-271	c 44	N77-32582 *
US-PATENT-CLASS-117-126GR	c 27	N74-23125 *	US-PATENT-CLASS-118-641	c 36	N84-22944 *	US-PATENT-CLASS-126-271	c 44	N78-10554 *

US-PATENT-CLASS-126-271	c 44	N78-17460 *	US-PATENT-CLASS-128-2.05Z	c 52	N79-18580 *	US-PATENT-CLASS-128-305	c 52	N75-33640 *
US-PATENT-CLASS-126-271	c 44	N78-31525 *	US-PATENT-CLASS-128-2.05	c 05	N70-41329 *	US-PATENT-CLASS-128-305	c 52	N78-14773 *
US-PATENT-CLASS-126-271	c 44	N78-31526 *	US-PATENT-CLASS-128-2.05	c 04	N71-23185 *	US-PATENT-CLASS-128-325	c 52	N84-28388 *
US-PATENT-CLASS-126-271	c 44	N79-11471 *	US-PATENT-CLASS-128-2.05	c 05	N71-27234 *	US-PATENT-CLASS-128-327	c 52	N82-11770 *
US-PATENT-CLASS-126-271	c 44	N79-14526 *	US-PATENT-CLASS-128-2.06B	c 05	N75-24716 *	US-PATENT-CLASS-128-328	c 52	N84-34913 *
US-PATENT-CLASS-126-271	c 44	N79-14529 *	US-PATENT-CLASS-128-2.06E	c 52	N76-29896 *	US-PATENT-CLASS-128-329R	c 52	N79-27836 *
US-PATENT-CLASS-126-271	c 44	N79-18443 *	US-PATENT-CLASS-128-2.06F	c 52	N74-12778 *	US-PATENT-CLASS-128-346	c 52	N81-25660 *
US-PATENT-CLASS-126-271	c 44	N79-23481 *	US-PATENT-CLASS-128-2.06R	c 05	N73-27941 *	US-PATENT-CLASS-128-346	c 52	N84-11744 *
US-PATENT-CLASS-126-271	c 44	N79-24433 *	US-PATENT-CLASS-128-2.06R	c 52	N76-14757 *	US-PATENT-CLASS-128-346	c 52	N84-28388 *
US-PATENT-CLASS-126-400	c 44	N78-15560 *	US-PATENT-CLASS-128-2.06	c 05	N69-21925 *	US-PATENT-CLASS-128-348	c 52	N80-16725 *
US-PATENT-CLASS-126-400	c 44	N79-24433 *	US-PATENT-CLASS-128-2.06	c 05	N71-22896 *	US-PATENT-CLASS-128-379	c 52	N77-14736 *
US-PATENT-CLASS-126-400	c 44	N85-30474 *	US-PATENT-CLASS-128-2.06	c 09	N71-24618 *	US-PATENT-CLASS-128-38	c 54	N84-16803 *
US-PATENT-CLASS-126-415	c 44	N84-34792 *	US-PATENT-CLASS-128-2.06	c 05	N71-26293 *	US-PATENT-CLASS-128-400	c 52	N77-14736 *
US-PATENT-CLASS-126-415	c 44	N85-30474 *	US-PATENT-CLASS-128-2.07	c 05	N73-32015 *	US-PATENT-CLASS-128-402	c 05	N72-20096 *
US-PATENT-CLASS-126-417	c 44	N80-16452 *	US-PATENT-CLASS-128-2.07	c 52	N74-20728 *	US-PATENT-CLASS-128-402	c 52	N77-14736 *
US-PATENT-CLASS-126-417	c 34	N84-22903 *	US-PATENT-CLASS-128-2.08	c 05	N69-21473 *	US-PATENT-CLASS-128-410	c 52	N77-28717 *
US-PATENT-CLASS-126-418	c 44	N84-28204 *	US-PATENT-CLASS-128-2.08	c 05	N73-32015 *	US-PATENT-CLASS-128-417	c 05	N72-25120 *
US-PATENT-CLASS-126-418	c 44	N86-27706 *	US-PATENT-CLASS-128-2.08	c 52	N74-20728 *	US-PATENT-CLASS-128-417	c 05	N72-27103 *
US-PATENT-CLASS-126-419	c 44	N80-20810 *	US-PATENT-CLASS-128-2.1A	c 09	N72-17153 *	US-PATENT-CLASS-128-418	c 52	N76-29896 *
US-PATENT-CLASS-126-419	c 44	N81-17518 *	US-PATENT-CLASS-128-2.1A	c 09	N72-22202 *	US-PATENT-CLASS-128-418	c 52	N77-14738 *
US-PATENT-CLASS-126-419	c 44	N84-28203 *	US-PATENT-CLASS-128-2.1A	c 52	N74-26625 *	US-PATENT-CLASS-128-419P	c 52	N76-29896 *
US-PATENT-CLASS-126-419	c 44	N85-30474 *	US-PATENT-CLASS-128-2.1A	c 52	N76-14757 *	US-PATENT-CLASS-128-421	c 52	N82-29863 *
US-PATENT-CLASS-126-419	c 44	N86-27706 *	US-PATENT-CLASS-128-2.1A	c 52	N76-29894 *	US-PATENT-CLASS-128-422	c 52	N82-33996 *
US-PATENT-CLASS-126-422	c 44	N82-18686 *	US-PATENT-CLASS-128-2.1A	c 52	N79-18580 *	US-PATENT-CLASS-128-62A	c 52	N82-29862 *
US-PATENT-CLASS-126-423	c 34	N88-23958 *	US-PATENT-CLASS-128-2.1E	c 05	N72-27103 *	US-PATENT-CLASS-128-639	c 52	N79-27836 *
US-PATENT-CLASS-126-425	c 44	N88-14492 *	US-PATENT-CLASS-128-2.1E	c 35	N76-24525 *	US-PATENT-CLASS-128-642	c 52	N80-27072 *
US-PATENT-CLASS-126-429	c 44	N82-18686 *	US-PATENT-CLASS-128-2.1E	c 52	N77-28717 *	US-PATENT-CLASS-128-642	c 52	N81-14612 *
US-PATENT-CLASS-126-430	c 44	N82-18686 *	US-PATENT-CLASS-128-2.1R	c 05	N73-26072 *	US-PATENT-CLASS-128-642	c 52	N81-20703 *
US-PATENT-CLASS-126-434	c 44	N80-20810 *	US-PATENT-CLASS-128-2.1Z	c 35	N76-24525 *	US-PATENT-CLASS-128-660	c 52	N79-26771 *
US-PATENT-CLASS-126-437	c 44	N80-20810 *	US-PATENT-CLASS-128-2.1	c 05	N71-11193 *	US-PATENT-CLASS-128-660	c 52	N83-27578 *
US-PATENT-CLASS-126-438	c 44	N80-14473 *	US-PATENT-CLASS-128-2.1	c 05	N71-12346 *	US-PATENT-CLASS-128-660	c 52	N85-30618 *
US-PATENT-CLASS-126-438	c 44	N82-16475 *	US-PATENT-CLASS-128-2.1	c 05	N71-24729 *	US-PATENT-CLASS-128-663	c 52	N83-27578 *
US-PATENT-CLASS-126-438	c 44	N84-28203 *	US-PATENT-CLASS-128-2.1	c 09	N71-26002 *	US-PATENT-CLASS-128-665	c 52	N81-27783 *
US-PATENT-CLASS-126-438	c 44	N84-28204 *	US-PATENT-CLASS-128-2.1	c 05	N72-25120 *	US-PATENT-CLASS-128-666	c 52	N80-23969 *
US-PATENT-CLASS-126-438	c 44	N86-27706 *	US-PATENT-CLASS-128-2F	c 54	N76-14804 *	US-PATENT-CLASS-128-686	c 52	N82-11770 *
US-PATENT-CLASS-126-440	c 44	N84-28204 *	US-PATENT-CLASS-128-2H	c 52	N76-14757 *	US-PATENT-CLASS-128-690	c 52	N80-23969 *
US-PATENT-CLASS-126-442	c 44	N80-14473 *	US-PATENT-CLASS-128-2H	c 52	N76-29894 *	US-PATENT-CLASS-128-691	c 52	N82-11770 *
US-PATENT-CLASS-126-443	c 35	N89-12048 *	US-PATENT-CLASS-128-2H	c 52	N77-10780 *	US-PATENT-CLASS-128-6	c 52	N80-16725 *
US-PATENT-CLASS-126-451	c 44	N84-28203 *	US-PATENT-CLASS-128-2H	c 52	N77-14736 *	US-PATENT-CLASS-128-736	c 52	N85-30618 *
US-PATENT-CLASS-126-900	c 44	N85-30474 *	US-PATENT-CLASS-128-2N	c 05	N72-25122 *	US-PATENT-CLASS-128-748	c 52	N80-16691 *
US-PATENT-CLASS-126-901	c 44	N80-16452 *	US-PATENT-CLASS-128-2N	c 05	N73-13114 *	US-PATENT-CLASS-128-760	c 52	N80-16690 *
US-PATENT-CLASS-126-901	c 44	N83-34449 *	US-PATENT-CLASS-128-2P	c 52	N76-29894 *	US-PATENT-CLASS-128-760	c 52	N81-29763 *
US-PATENT-CLASS-126-901	c 35	N89-12048 *	US-PATENT-CLASS-128-2R	c 09	N72-22202 *	US-PATENT-CLASS-128-761	c 52	N81-24711 *
US-PATENT-CLASS-126-91A	c 25	N79-11151 *	US-PATENT-CLASS-128-2R	c 52	N79-12694 *	US-PATENT-CLASS-128-774	c 52	N80-27072 *
US-PATENT-CLASS-128.2.06E	c 05	N75-24716 *	US-PATENT-CLASS-128-2S	c 52	N74-10975 *	US-PATENT-CLASS-128-774	c 52	N81-20703 *
US-PATENT-CLASS-128.2.07	c 52	N79-21750 *	US-PATENT-CLASS-128-2S	c 52	N74-27864 *	US-PATENT-CLASS-128-774	c 52	N83-25346 *
US-PATENT-CLASS-128-DIG.12	c 37	N77-28487 *	US-PATENT-CLASS-128-2S	c 33	N75-31329 *	US-PATENT-CLASS-128-778	c 52	N82-22875 *
US-PATENT-CLASS-128-DIG.12	c 51	N81-14605 *	US-PATENT-CLASS-128-2S	c 33	N76-19338 *	US-PATENT-CLASS-128-782	c 52	N80-27072 *
US-PATENT-CLASS-128-DIG.13	c 52	N83-27577 *	US-PATENT-CLASS-128-2S	c 52	N76-29895 *	US-PATENT-CLASS-128-782	c 39	N83-20280 *
US-PATENT-CLASS-128-DIG.16	c 51	N81-14605 *	US-PATENT-CLASS-128-2S	c 52	N76-29896 *	US-PATENT-CLASS-128-782	c 52	N83-25346 *
US-PATENT-CLASS-128-DIG.20	c 52	N76-19785 *	US-PATENT-CLASS-128-2V	c 52	N74-20726 *	US-PATENT-CLASS-128-784	c 52	N82-33996 *
US-PATENT-CLASS-128-DIG.20	c 37	N81-17433 *	US-PATENT-CLASS-128-2V	c 35	N75-12271 *	US-PATENT-CLASS-128-80-E	c 54	N86-22112 *
US-PATENT-CLASS-128-DIG.25	c 52	N81-25660 *	US-PATENT-CLASS-128-2V	c 54	N75-27760 *	US-PATENT-CLASS-128-80F	c 52	N81-25661 *
US-PATENT-CLASS-128-DIG.25	c 52	N84-11744 *	US-PATENT-CLASS-128-2V	c 52	N79-14751 *	US-PATENT-CLASS-128-804	c 52	N82-33996 *
US-PATENT-CLASS-128-DIG.26	c 51	N81-14605 *	US-PATENT-CLASS-128-2V	c 52	N79-18580 *	US-PATENT-CLASS-128-89R	c 52	N81-25662 *
US-PATENT-CLASS-128-DIG.4	c 05	N72-27103 *	US-PATENT-CLASS-128.202.11	c 54	N86-28618 *	US-PATENT-CLASS-128-903	c 52	N80-18691 *
US-PATENT-CLASS-128-DIG.4	c 05	N75-24716 *	US-PATENT-CLASS-128-203	c 54	N76-24900 *	US-PATENT-CLASS-128-92C	c 27	N78-17215 *
US-PATENT-CLASS-128-DIG.4	c 35	N76-24525 *	US-PATENT-CLASS-128-204.18	c 51	N81-14605 *	US-PATENT-CLASS-128-92G	c 27	N78-17215 *
US-PATENT-CLASS-128-DIG.4	c 52	N77-28717 *	US-PATENT-CLASS-128-206F	c 14	N73-24473 *	US-PATENT-CLASS-129-16.7	c 08	N71-15908 *
US-PATENT-CLASS-128-DIG.6	c 51	N81-14605 *	US-PATENT-CLASS-128-207.14	c 51	N81-14605 *	US-PATENT-CLASS-13-20	c 11	N72-23215 *
US-PATENT-CLASS-128-DIG.9	c 52	N80-16725 *	US-PATENT-CLASS-128-207.28	c 51	N81-14605 *	US-PATENT-CLASS-13-20	c 12	N79-26075 *
US-PATENT-CLASS-128-DIG.9	c 51	N81-14605 *	US-PATENT-CLASS-128-212	c 54	N80-10799 *	US-PATENT-CLASS-13-22	c 12	N79-26075 *
US-PATENT-CLASS-128-1.2	c 52	N82-22875 *	US-PATENT-CLASS-128-214D	c 52	N79-14749 *	US-PATENT-CLASS-13-24	c 12	N79-26075 *
US-PATENT-CLASS-128-1A	c 05	N73-32012 *	US-PATENT-CLASS-128-214E	c 52	N74-22771 *	US-PATENT-CLASS-13-26	c 33	N71-15625 *
US-PATENT-CLASS-128-1A	c 54	N84-16803 *	US-PATENT-CLASS-128-214F	c 37	N77-28487 *	US-PATENT-CLASS-13-26	c 11	N71-23267 *
US-PATENT-CLASS-128-1R	c 52	N77-25772 *	US-PATENT-CLASS-128-230	c 52	N75-33640 *	US-PATENT-CLASS-13-31	c 14	N72-23215 *
US-PATENT-CLASS-128-1R	c 52	N77-28716 *	US-PATENT-CLASS-128-236	c 51	N81-14605 *	US-PATENT-CLASS-13-31	c 31	N74-27900 *
US-PATENT-CLASS-128-1R	c 52	N81-25660 *	US-PATENT-CLASS-128-24A	c 52	N84-34913 *	US-PATENT-CLASS-13-35	c 33	N71-24145 *
US-PATENT-CLASS-128-1R	c 52	N84-11744 *	US-PATENT-CLASS-128-24A	c 05	N73-27062 *	US-PATENT-CLASS-134-137	c 37	N82-12441 *
US-PATENT-CLASS-128-142.2	c 54	N76-24900 *	US-PATENT-CLASS-128-24A	c 54	N75-27760 *	US-PATENT-CLASS-134-166C	c 37	N87-17035 *
US-PATENT-CLASS-128-142.5	c 05	N71-11190 *	US-PATENT-CLASS-128-24	c 05	N71-24738 *	US-PATENT-CLASS-134-17	c 43	N81-26509 *
US-PATENT-CLASS-128-142.5	c 05	N71-11203 *	US-PATENT-CLASS-128-25R	c 37	N74-18127 *	US-PATENT-CLASS-134-21	c 37	N76-18456 *
US-PATENT-CLASS-128-142.5	c 05	N71-17599 *	US-PATENT-CLASS-128-25	c 05	N71-24738 *	US-PATENT-CLASS-134-37	c 37	N76-18456 *
US-PATENT-CLASS-128-142.5	c 05	N72-20096 *	US-PATENT-CLASS-128-26	c 52	N76-19785 *	US-PATENT-CLASS-134-37	c 37	N85-21652 *
US-PATENT-CLASS-128-142.5	c 05	N73-25125 *	US-PATENT-CLASS-128-272	c 15	N71-24835 *	US-PATENT-CLASS-134-93	c 37	N87-17035 *
US-PATENT-CLASS-128-142.7	c 54	N78-32721 *	US-PATENT-CLASS-128-272	c 52	N79-14749 *	US-PATENT-CLASS-135-1	c 32	N70-36536 *
US-PATENT-CLASS-128-142R	c 54	N80-10799 *	US-PATENT-CLASS-128-275	c 15	N71-24835 *	US-PATENT-CLASS-135-903	c 37	N87-17036 *
US-PATENT-CLASS-128-145.8	c 54	N75-27761 *	US-PATENT-CLASS-128-275	c 52	N81-29763 *	US-PATENT-CLASS-136-100R	c 03	N72-20034 *
US-PATENT-CLASS-128-15R	c 54	N84-16803 *	US-PATENT-CLASS-128-276	c 52	N80-14684 *	US-PATENT-CLASS-136-114	c 44	N76-14601 *
US-PATENT-CLASS-128-191R	c 25	N74-12813 *	US-PATENT-CLASS-128-276	c 52	N80-18690 *	US-PATENT-CLASS-136-132	c 03	N71-11053 *
US-PATENT-CLASS-128-191R	c 54	N80-10799 *	US-PATENT-CLASS-128-280	c 24	N82-29362 *	US-PATENT-CLASS-136-132	c 03	N71-22974 *
US-PATENT-CLASS-128-1	c 05	N70-41819 *	US-PATENT-CLASS-128-283	c 05	N69-23192 *	US-PATENT-CLASS-136-133	c 15	N69-24320 *
US-PATENT-CLASS-128-1	c 05	N71-20268 *	US-PATENT-CLASS-128-283	c 24	N82-29362 *	US-PATENT-CLASS-136-133	c 03	N71-23006 *
US-PATENT-CLASS-128-2.05A	c 52	N74-26626 *	US-PATENT-CLASS-128-284	c 24	N82-29362 *	US-PATENT-CLASS-136-133	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05A	c 54	N75-13531 *	US-PATENT-CLASS-128-285	c 24	N82-29362 *	US-PATENT-CLASS-136-135	c 03	N72-15986 *
US-PATENT-CLASS-128-2.05E	c 52	N74-27566 *	US-PATENT-CLASS-128-288	c 24	N82-29362 *	US-PATENT-CLASS-136-143	c 44	N76-29699 *
US-PATENT-CLASS-128-2.05E	c 52	N76-29896 *	US-PATENT-CLASS-128-291	c 24	N82-29362 *	US-PATENT-CLASS-136-146	c 03	N69-21337 *
US-PATENT-CLASS-128-2.05F	c 14	N73-32326 *	US-PATENT-CLASS-128-295	c 05	N72-22093 *	US-PATENT-CLASS-136-146	c 24	N76-14204 *
US-PATENT-CLASS-128-2.05P	c 54	N75-13531 *	US-PATENT-CLASS-128-295	c 52	N81-24711 *	US-PATENT-CLASS-136-148	c 24	N76-14204 *
US-PATENT-CLASS-128-2.05R	c 05	N73-27941 *	US-PATENT-CLASS-128-295	c 52	N81-28740 *	US-PATENT-CLASS-136-148	c 44	N82-24645 *
US-PATENT-CLASS-128-2.05R	c 52	N76-29895 *	US-PATENT-CLASS-128-296	c 24	N82-29362 *	US-PATENT-CLASS-136-162	c 44	N76-14601 *
US-PATENT-CLASS-128-2.05R	c 52	N79-10724 *	US-PATENT-CLASS-128-29	c 05	N70-39922 *	US-PATENT-CLASS-136-166	c 03	N71-23336 *
US-PATENT-CLASS-128-2.05S	c 52	N74-26626 *	US-PATENT-CLASS-128-2	c 05	N73-27062 *	US-PATENT-CLASS-136-166	c 03	N72-20032 *
US-PATENT-CLASS-128-2.05T	c 52	N74-12778 *	US-PATENT-CLASS-128-303B	c 52	N83-25346 *	US-PATENT-CLASS-136-170	c 03	N71-11051 *
US-PATENT-CLASS-128-2.05V	c 35	N76-24525 *	US-PATENT-CLASS-128-303R	c 52	N77-28716 *	US-PATENT-CLASS-136-175	c 03	N72-20034 *
US-PATENT-CLASS-128-2.05Z	c 54	N75-27760 *	US-PATENT-CLASS-128-305	c 05	N73-27062 *	US-PATENT-CLASS-136-179	c 03	N70-41864 *

US-PATENT-CLASS-136-182	c 03	N71-10728 *	US-PATENT-CLASS-136-89CC	c 44	N79-31752 *	US-PATENT-CLASS-137-550	c 37	N76-14463 *
US-PATENT-CLASS-136-182	c 03	N71-20407 *	US-PATENT-CLASS-136-89H	c 44	N78-25528 *	US-PATENT-CLASS-137-554	c 09	N71-23191 *
US-PATENT-CLASS-136-182	c 03	N71-20491 *	US-PATENT-CLASS-136-89H	c 44	N78-25529 *	US-PATENT-CLASS-137-559	c 11	N73-12265 *
US-PATENT-CLASS-136-182	c 44	N74-27519 *	US-PATENT-CLASS-136-89PC	c 44	N79-25482 *	US-PATENT-CLASS-137-574	c 20	N80-10278 *
US-PATENT-CLASS-136-182	c 44	N76-14601 *	US-PATENT-CLASS-136-89P	c 44	N79-31753 *	US-PATENT-CLASS-137-576	c 20	N80-10278 *
US-PATENT-CLASS-136-202	c 09	N72-12136 *	US-PATENT-CLASS-136-89P	c 44	N77-31601 *	US-PATENT-CLASS-137-582	c 32	N71-16103 *
US-PATENT-CLASS-136-202	c 03	N72-26031 *	US-PATENT-CLASS-136-89P	c 44	N78-25528 *	US-PATENT-CLASS-137-582	c 32	N71-16106 *
US-PATENT-CLASS-136-202	c 44	N76-16612 *	US-PATENT-CLASS-136-89P	c 44	N78-25529 *	US-PATENT-CLASS-137-582	c 15	N71-19569 *
US-PATENT-CLASS-136-202	c 35	N77-32454 *	US-PATENT-CLASS-136-89P	c 44	N78-27515 *	US-PATENT-CLASS-137-582	c 15	N73-26472 *
US-PATENT-CLASS-136-202	c 35	N79-14346 *	US-PATENT-CLASS-136-89P	c 44	N79-17314 *	US-PATENT-CLASS-137-590	c 20	N80-10278 *
US-PATENT-CLASS-136-206	c 03	N72-11062 *	US-PATENT-CLASS-136-89P	c 44	N80-14474 *	US-PATENT-CLASS-137-594	c 12	N71-18615 *
US-PATENT-CLASS-136-206	c 09	N72-12136 *	US-PATENT-CLASS-136-89SG	c 44	N78-24609 *	US-PATENT-CLASS-137-604	c 15	N73-27406 *
US-PATENT-CLASS-136-206	c 44	N76-14595 *	US-PATENT-CLASS-136-89SG	c 44	N80-24741 *	US-PATENT-CLASS-137-606	c 37	N87-21332 *
US-PATENT-CLASS-136-206	c 44	N76-31666 *	US-PATENT-CLASS-136-89SJ	c 44	N78-13526 *	US-PATENT-CLASS-137-608	c 15	N73-13462 *
US-PATENT-CLASS-136-20	c 44	N74-19693 *	US-PATENT-CLASS-136-89SJ	c 44	N79-11467 *	US-PATENT-CLASS-137-614.06	c 37	N79-11402 *
US-PATENT-CLASS-136-210	c 44	N76-16612 *	US-PATENT-CLASS-136-89SJ	c 44	N79-14528 *	US-PATENT-CLASS-137-614.11	c 37	N87-25573 *
US-PATENT-CLASS-136-211	c 35	N76-15434 *	US-PATENT-CLASS-136-89SJ	c 44	N79-25482 *	US-PATENT-CLASS-137-614.18	c 37	N87-25573 *
US-PATENT-CLASS-136-212	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N69-24267 *	US-PATENT-CLASS-137-614	c 15	N70-36492 *
US-PATENT-CLASS-136-213	c 14	N69-27459 *	US-PATENT-CLASS-136-89	c 03	N71-11049 *	US-PATENT-CLASS-137-615	c 12	N71-16031 *
US-PATENT-CLASS-136-213	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-11050 *	US-PATENT-CLASS-137-624.11	c 35	N78-19466 *
US-PATENT-CLASS-136-224	c 14	N73-12447 *	US-PATENT-CLASS-136-89	c 03	N71-11056 *	US-PATENT-CLASS-137-624.14	c 03	N69-21469 *
US-PATENT-CLASS-136-225	c 14	N73-24472 *	US-PATENT-CLASS-136-89	c 03	N71-18698 *	US-PATENT-CLASS-137-625.38	c 37	N78-25426 *
US-PATENT-CLASS-136-225	c 35	N76-15434 *	US-PATENT-CLASS-136-89	c 03	N71-19545 *	US-PATENT-CLASS-137-625.3	c 37	N78-25426 *
US-PATENT-CLASS-136-225	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 03	N71-20492 *	US-PATENT-CLASS-137-625.4	c 37	N80-23654 *
US-PATENT-CLASS-136-227	c 09	N72-12136 *	US-PATENT-CLASS-136-89	c 03	N71-20895 *	US-PATENT-CLASS-137-625.5	c 15	N71-23051 *
US-PATENT-CLASS-136-228	c 33	N71-15568 *	US-PATENT-CLASS-136-89	c 26	N71-23043 *	US-PATENT-CLASS-137-625.69	c 15	N70-36908 *
US-PATENT-CLASS-136-230	c 14	N71-23039 *	US-PATENT-CLASS-136-89	c 03	N71-23187 *	US-PATENT-CLASS-137-628	c 37	N74-21065 *
US-PATENT-CLASS-136-230	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 03	N71-23449 *	US-PATENT-CLASS-137-637.05	c 37	N79-11402 *
US-PATENT-CLASS-136-232	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N71-33409 *	US-PATENT-CLASS-137-81.5	c 12	N69-21466 *
US-PATENT-CLASS-136-233	c 14	N72-27410 *	US-PATENT-CLASS-136-89	c 03	N72-20031 *	US-PATENT-CLASS-137-81.5	c 15	N71-15609 *
US-PATENT-CLASS-136-233	c 14	N73-13417 *	US-PATENT-CLASS-136-89	c 03	N72-22042 *	US-PATENT-CLASS-137-81.5	c 12	N71-17578 *
US-PATENT-CLASS-136-233	c 34	N74-27861 *	US-PATENT-CLASS-136-89	c 31	N72-22874 *	US-PATENT-CLASS-137-81.5	c 12	N71-17579 *
US-PATENT-CLASS-136-233	c 35	N77-14409 *	US-PATENT-CLASS-136-89	c 03	N72-24037 *	US-PATENT-CLASS-137-81.5	c 10	N71-25899 *
US-PATENT-CLASS-136-236R	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N72-25259 *	US-PATENT-CLASS-137-81.5	c 12	N71-27332 *
US-PATENT-CLASS-136-236	c 35	N79-14346 *	US-PATENT-CLASS-136-89	c 03	N72-27053 *	US-PATENT-CLASS-137-81.5	c 12	N71-28741 *
US-PATENT-CLASS-136-240	c 35	N77-32454 *	US-PATENT-CLASS-136-89	c 09	N73-32109 *	US-PATENT-CLASS-137-81.5	c 28	N72-22772 *
US-PATENT-CLASS-136-246	c 44	N85-21768 *	US-PATENT-CLASS-136-89	c 44	N74-14784 *	US-PATENT-CLASS-137-81.5	c 15	N72-33477 *
US-PATENT-CLASS-136-249	c 44	N81-12542 *	US-PATENT-CLASS-136-89	c 44	N76-14600 *	US-PATENT-CLASS-137-81.5	c 15	N73-13462 *
US-PATENT-CLASS-136-249	c 44	N82-29709 *	US-PATENT-CLASS-136-89	c 44	N76-28635 *	US-PATENT-CLASS-137-81.5	c 28	N73-13773 *
US-PATENT-CLASS-136-249	c 44	N82-31764 *	US-PATENT-CLASS-136-89	c 44	N76-31666 *	US-PATENT-CLASS-137-819	c 33	N74-11050 *
US-PATENT-CLASS-136-249	c 44	N83-32177 *	US-PATENT-CLASS-136-89	c 44	N77-10635 *	US-PATENT-CLASS-137-81	c 05	N72-20097 *
US-PATENT-CLASS-136-249	c 44	N87-17399 *	US-PATENT-CLASS-136-89	c 44	N77-14580 *	US-PATENT-CLASS-137-81	c 14	N73-13418 *
US-PATENT-CLASS-136-249	c 33	N87-23879 *	US-PATENT-CLASS-136-89	c 44	N77-19571 *	US-PATENT-CLASS-137-833	c 33	N74-11050 *
US-PATENT-CLASS-136-24	c 09	N73-32108 *	US-PATENT-CLASS-136-89	c 44	N79-11468 *	US-PATENT-CLASS-137-838	c 71	N84-28568 *
US-PATENT-CLASS-136-253	c 44	N85-34441 *	US-PATENT-CLASS-136-90	c 44	N76-14601 *	US-PATENT-CLASS-137-840	c 33	N74-11050 *
US-PATENT-CLASS-136-255	c 44	N81-29525 *	US-PATENT-CLASS-137-DIG.9	c 54	N76-24900 *	US-PATENT-CLASS-137-886	c 37	N81-17433 *
US-PATENT-CLASS-136-255	c 44	N83-14692 *	US-PATENT-CLASS-137-101	c 07	N77-23106 *	US-PATENT-CLASS-137-887	c 37	N81-17433 *
US-PATENT-CLASS-136-255	c 33	N85-21492 *	US-PATENT-CLASS-137-104	c 37	N78-10467 *	US-PATENT-CLASS-137-99	c 37	N85-34403 *
US-PATENT-CLASS-136-255	c 44	N85-30475 *	US-PATENT-CLASS-137-110	c 54	N76-24900 *	US-PATENT-CLASS-138.8R	c 27	N81-15104 *
US-PATENT-CLASS-136-255	c 76	N86-20150 *	US-PATENT-CLASS-137-116.3	c 37	N85-34403 *	US-PATENT-CLASS-138-103	c 52	N80-16725 *
US-PATENT-CLASS-136-255	c 33	N87-23879 *	US-PATENT-CLASS-137-113	c 15	N71-15967 *	US-PATENT-CLASS-138-113	c 34	N75-12222 *
US-PATENT-CLASS-136-256	c 44	N83-13579 *	US-PATENT-CLASS-137-13	c 15	N72-33477 *	US-PATENT-CLASS-138-114	c 34	N75-12222 *
US-PATENT-CLASS-136-256	c 44	N83-14692 *	US-PATENT-CLASS-137-14	c 37	N79-33468 *	US-PATENT-CLASS-138-119	c 32	N70-41579 *
US-PATENT-CLASS-136-256	c 44	N85-20530 *	US-PATENT-CLASS-137-15.1	c 02	N74-20646 *	US-PATENT-CLASS-138-120	c 54	N86-28619 *
US-PATENT-CLASS-136-256	c 44	N85-30475 *	US-PATENT-CLASS-137-15.1	c 07	N74-31270 *	US-PATENT-CLASS-138-120	c 54	N86-28620 *
US-PATENT-CLASS-136-258	c 44	N81-19558 *	US-PATENT-CLASS-137-15.1	c 07	N75-24736 *	US-PATENT-CLASS-138-120	c 54	N86-29507 *
US-PATENT-CLASS-136-258	c 44	N81-29525 *	US-PATENT-CLASS-137-15.1	c 07	N77-18154 *	US-PATENT-CLASS-138-133	c 52	N80-16725 *
US-PATENT-CLASS-136-259	c 44	N83-13579 *	US-PATENT-CLASS-137-15.1	c 07	N79-14096 *	US-PATENT-CLASS-138-148	c 34	N75-12222 *
US-PATENT-CLASS-136-259	c 44	N83-14692 *	US-PATENT-CLASS-137-15.1	c 05	N79-24976 *	US-PATENT-CLASS-138-178	c 15	N72-20445 *
US-PATENT-CLASS-136-261	c 44	N82-26777 *	US-PATENT-CLASS-137-15.1	c 07	N81-14999 *	US-PATENT-CLASS-138-33	c 52	N80-16725 *
US-PATENT-CLASS-136-261	c 44	N85-30475 *	US-PATENT-CLASS-137-15.2	c 02	N74-20646 *	US-PATENT-CLASS-138-38	c 02	N88-14071 *
US-PATENT-CLASS-136-261	c 44	N86-32875 *	US-PATENT-CLASS-137-15.2	c 35	N76-14431 *	US-PATENT-CLASS-138-38	c 34	N88-29133 *
US-PATENT-CLASS-136-262	c 44	N81-29525 *	US-PATENT-CLASS-137-154	c 15	N73-27406 *	US-PATENT-CLASS-138-42	c 15	N71-15608 *
US-PATENT-CLASS-136-262	c 76	N86-20150 *	US-PATENT-CLASS-137-177	c 20	N80-10278 *	US-PATENT-CLASS-138-42	c 44	N84-14583 *
US-PATENT-CLASS-136-28	c 03	N71-10608 *	US-PATENT-CLASS-137-197	c 15	N70-16146 *	US-PATENT-CLASS-138-43	c 15	N71-19213 *
US-PATENT-CLASS-136-290	c 44	N82-26777 *	US-PATENT-CLASS-137-197	c 35	N78-12390 *	US-PATENT-CLASS-138-45	c 15	N71-18580 *
US-PATENT-CLASS-136-291	c 44	N81-12542 *	US-PATENT-CLASS-137-1	c 12	N70-38997 *	US-PATENT-CLASS-138-45	c 15	N73-13462 *
US-PATENT-CLASS-136-30	c 44	N74-19693 *	US-PATENT-CLASS-137-207	c 34	N77-30399 *	US-PATENT-CLASS-138-46	c 12	N71-18615 *
US-PATENT-CLASS-136-30	c 44	N76-18643 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-138-46	c 15	N71-18580 *
US-PATENT-CLASS-136-30	c 44	N76-29699 *	US-PATENT-CLASS-137-209	c 34	N77-30399 *	US-PATENT-CLASS-138-96R	c 37	N79-22474 *
US-PATENT-CLASS-136-36	c 44	N74-19692 *	US-PATENT-CLASS-137-209	c 20	N80-10278 *	US-PATENT-CLASS-138-97	c 37	N86-32736 *
US-PATENT-CLASS-136-6LF	c 44	N76-18643 *	US-PATENT-CLASS-137-340	c 15	N70-34817 *	US-PATENT-CLASS-139-425R	c 28	N72-17108 *
US-PATENT-CLASS-136-6	c 03	N71-26084 *	US-PATENT-CLASS-137-340	c 15	N70-35087 *	US-PATENT-CLASS-140-105	c 15	N72-12408 *
US-PATENT-CLASS-136-6	c 03	N72-15986 *	US-PATENT-CLASS-137-341	c 12	N71-17661 *	US-PATENT-CLASS-140-123	c 15	N71-15918 *
US-PATENT-CLASS-136-6	c 44	N82-24641 *	US-PATENT-CLASS-137-375	c 37	N80-23654 *	US-PATENT-CLASS-140-124	c 15	N71-10809 *
US-PATENT-CLASS-136-6	c 44	N82-24642 *	US-PATENT-CLASS-137-397	c 15	N73-26472 *	US-PATENT-CLASS-141-197	c 35	N78-10428 *
US-PATENT-CLASS-136-6	c 44	N82-24643 *	US-PATENT-CLASS-137-469	c 05	N72-20097 *	US-PATENT-CLASS-141-198	c 25	N86-27431 *
US-PATENT-CLASS-136-6	c 44	N82-24644 *	US-PATENT-CLASS-137-484.2	c 34	N78-25351 *	US-PATENT-CLASS-141-23	c 15	N72-21465 *
US-PATENT-CLASS-136-79	c 03	N72-20032 *	US-PATENT-CLASS-137-487.5	c 14	N73-13418 *	US-PATENT-CLASS-141-258	c 14	N71-27005 *
US-PATENT-CLASS-136-81	c 03	N72-20032 *	US-PATENT-CLASS-137-491	c 15	N69-21924 *	US-PATENT-CLASS-141-4	c 35	N78-10428 *
US-PATENT-CLASS-136-83R	c 03	N72-20034 *	US-PATENT-CLASS-137-493	c 52	N81-25660 *	US-PATENT-CLASS-141-5	c 33	N71-20834 *
US-PATENT-CLASS-136-83R	c 44	N76-18641 *	US-PATENT-CLASS-137-495	c 15	N70-38603 *	US-PATENT-CLASS-141-91	c 12	N71-21089 *
US-PATENT-CLASS-136-83	c 03	N71-28579 *	US-PATENT-CLASS-137-496	c 15	N71-22706 *	US-PATENT-CLASS-148-DIG.26	c 76	N85-30922 *
US-PATENT-CLASS-136-86A	c 44	N76-27664 *	US-PATENT-CLASS-137-501	c 34	N78-25351 *	US-PATENT-CLASS-148-1.5	c 26	N71-10607 *
US-PATENT-CLASS-136-86S	c 44	N76-18641 *	US-PATENT-CLASS-137-505.12	c 14	N71-18625 *	US-PATENT-CLASS-148-1.5	c 26	N71-23654 *
US-PATENT-CLASS-136-86	c 03	N71-11052 *	US-PATENT-CLASS-137-505.16	c 34	N78-25351 *	US-PATENT-CLASS-148-1.5	c 76	N74-20329 *
US-PATENT-CLASS-136-86	c 03	N71-20904 *	US-PATENT-CLASS-137-505.25	c 37	N78-25426 *	US-PATENT-CLASS-148-1.5	c 44	N80-29835 *
US-PATENT-CLASS-136-86	c 15	N71-23022 *	US-PATENT-CLASS-137-505.38	c 37	N75-15050 *	US-PATENT-CLASS-148-1.5	c 33	N81-26360 *
US-PATENT-CLASS-136-86	c 03	N71-29044 *	US-PATENT-CLASS-137-505.42	c 37	N75-15050 *	US-PATENT-CLASS-148-1.5	c 44	N82-26777 *
US-PATENT-CLASS-136-89AC	c 44	N77-31601 *	US-PATENT-CLASS-137-515.3	c 37	N76-14463 *	US-PATENT-CLASS-148-1.5	c 44	N82-29709 *
US-PATENT-CLASS-136-89CA	c 44	N79-25482 *	US-PATENT-CLASS-137-516.27	c 15	N73-30459 *	US-PATENT-CLASS-148-1.5	c 44	N86-32875 *
US-PATENT-CLASS-136-89CC	c 44	N78-25527 *	US-PATENT-CLASS-137-535	c 15	N73-30459 *	US-PATENT-CLASS-148-11.5R	c 15	N73-13465 *
US-PATENT-CLASS-136-89CC	c 44	N78-25529 *	US-PATENT-CLASS-137-538	c 05	N73-32014 *	US-PATENT-CLASS-148-12.4	c 26	N79-22271 *
US-PATENT-CLASS-136-89CC	c 44	N79-11467 *	US-PATENT-CLASS-137-538	c 05	N73-25125 *	US-PATENT-CLASS-148-12.7A	c 26	N78-24333 *
US-PATENT-CLASS-136-89CC	c 44	N79-17314 *	US-PATENT-CLASS-137-539	c 15	N70-41811 *	US-PATENT-CLASS-148-12.7N	c 26	N77-20201 *
US-PATENT-CLASS-136-89CC	c 44	N79-25482 *	US-PATENT-CLASS-137-549	c 37	N81-17433 *	US-PATENT-CLASS-148-12F	c 26	N79-22271 *

US-PATENT-CLASS-148-121	c 76	N79-16678 *	US-PATENT-CLASS-149-43	c 20	N78-32179 *	US-PATENT-CLASS-156-264	c 05	N72-25121 *
US-PATENT-CLASS-148-125	c 26	N78-24333 *	US-PATENT-CLASS-149-44	c 20	N78-32179 *	US-PATENT-CLASS-156-264	c 24	N78-17150 *
US-PATENT-CLASS-148-126	c 17	N71-24142 *	US-PATENT-CLASS-149-60	c 28	N74-33209 *	US-PATENT-CLASS-156-264	c 24	N81-33235 *
US-PATENT-CLASS-148-126	c 18	N71-26153 *	US-PATENT-CLASS-149-76	c 28	N74-33209 *	US-PATENT-CLASS-156-264	c 31	N83-34073 *
US-PATENT-CLASS-148-126	c 18	N71-28729 *	US-PATENT-CLASS-149-83	c 20	N78-32179 *	US-PATENT-CLASS-156-267	c 27	N81-14077 *
US-PATENT-CLASS-148-126	c 26	N74-10521 *	US-PATENT-CLASS-149-85	c 20	N78-32179 *	US-PATENT-CLASS-156-272.4	c 31	N85-29083 *
US-PATENT-CLASS-148-127	c 26	N75-29236 *	US-PATENT-CLASS-149-88	c 28	N78-32179 *	US-PATENT-CLASS-156-272.4	c 35	N88-30108 *
US-PATENT-CLASS-148-13.1	c 76	N90-19884 *	US-PATENT-CLASS-149-92	c 27	N72-25699 *	US-PATENT-CLASS-156-272	c 27	N80-32516 *
US-PATENT-CLASS-148-131	c 26	N80-28492 *	US-PATENT-CLASS-149-92	c 28	N78-31255 *	US-PATENT-CLASS-156-272	c 33	N82-26571 *
US-PATENT-CLASS-148-13	c 14	N71-25892 *	US-PATENT-CLASS-149-93	c 28	N78-31255 *	US-PATENT-CLASS-156-273.7	c 27	N85-20125 *
US-PATENT-CLASS-148-13	c 76	N90-19884 *	US-PATENT-CLASS-15-143	c 15	N72-11390 *	US-PATENT-CLASS-156-273.9	c 31	N85-29083 *
US-PATENT-CLASS-148-159	c 26	N89-28621 *	US-PATENT-CLASS-15-210	c 15	N72-11390 *	US-PATENT-CLASS-156-274.8	c 35	N88-30108 *
US-PATENT-CLASS-148-16.6	c 26	N88-14179 *	US-PATENT-CLASS-15-230.16	c 37	N79-10422 *	US-PATENT-CLASS-156-275.5	c 35	N88-30108 *
US-PATENT-CLASS-148-162	c 26	N77-20201 *	US-PATENT-CLASS-15-230.17	c 37	N79-10422 *	US-PATENT-CLASS-156-278	c 44	N80-18550 *
US-PATENT-CLASS-148-162	c 26	N87-28647 *	US-PATENT-CLASS-15-406	c 37	N85-21652 *	US-PATENT-CLASS-156-285	c 15	N71-23052 *
US-PATENT-CLASS-148-173	c 76	N83-20789 *	US-PATENT-CLASS-15-415	c 14	N73-30395 *	US-PATENT-CLASS-156-285	c 18	N73-30532 *
US-PATENT-CLASS-148-174	c 26	N71-29156 *	US-PATENT-CLASS-150-11	c 37	N81-14317 *	US-PATENT-CLASS-156-285	c 31	N74-18089 *
US-PATENT-CLASS-148-174	c 44	N76-28635 *	US-PATENT-CLASS-150-1	c 52	N79-14749 *	US-PATENT-CLASS-156-285	c 24	N74-27035 *
US-PATENT-CLASS-148-174	c 44	N78-24609 *	US-PATENT-CLASS-151-41.76	c 37	N80-23653 *	US-PATENT-CLASS-156-285	c 24	N78-17149 *
US-PATENT-CLASS-148-174	c 76	N85-30922 *	US-PATENT-CLASS-152-11	c 31	N71-18611 *	US-PATENT-CLASS-156-285	c 24	N78-17150 *
US-PATENT-CLASS-148-174	c 76	N87-15882 *	US-PATENT-CLASS-152-225	c 15	N71-27091 *	US-PATENT-CLASS-156-285	c 44	N80-18550 *
US-PATENT-CLASS-148-175	c 25	N75-26043 *	US-PATENT-CLASS-152-250	c 15	N71-27091 *	US-PATENT-CLASS-156-285	c 24	N80-26388 *
US-PATENT-CLASS-148-175	c 76	N76-25049 *	US-PATENT-CLASS-152-330RF	c 37	N81-24443 *	US-PATENT-CLASS-156-285	c 24	N81-29163 *
US-PATENT-CLASS-148-175	c 44	N76-28635 *	US-PATENT-CLASS-152-353G	c 37	N81-24443 *	US-PATENT-CLASS-156-285	c 24	N81-33235 *
US-PATENT-CLASS-148-175	c 44	N82-28780 *	US-PATENT-CLASS-152-353R	c 37	N81-24443 *	US-PATENT-CLASS-156-286	c 52	N84-28389 *
US-PATENT-CLASS-148-175	c 76	N83-20789 *	US-PATENT-CLASS-152-379.4	c 37	N81-24443 *	US-PATENT-CLASS-156-286	c 37	N76-21554 *
US-PATENT-CLASS-148-175	c 76	N85-30922 *	US-PATENT-CLASS-156.307.7	c 27	N82-11206 *	US-PATENT-CLASS-156-286	c 37	N76-24575 *
US-PATENT-CLASS-148-175	c 76	N87-15882 *	US-PATENT-CLASS-156-DIG.6.8	c 76	N79-23798 *	US-PATENT-CLASS-156-286	c 24	N78-17150 *
US-PATENT-CLASS-148-187	c 26	N72-17820 *	US-PATENT-CLASS-156-DIG.6.2	c 76	N77-32919 *	US-PATENT-CLASS-156-286	c 37	N87-23981 *
US-PATENT-CLASS-148-187	c 14	N72-28438 *	US-PATENT-CLASS-156-DIG.6.2	c 35	N83-24828 *	US-PATENT-CLASS-156-286	c 74	N87-28416 *
US-PATENT-CLASS-148-187	c 33	N81-26360 *	US-PATENT-CLASS-156-DIG.6.2	c 33	N85-29142 *	US-PATENT-CLASS-156-289	c 24	N78-17149 *
US-PATENT-CLASS-148-187	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6.4	c 76	N79-11920 *	US-PATENT-CLASS-156-289	c 24	N78-17150 *
US-PATENT-CLASS-148-188	c 24	N71-10560 *	US-PATENT-CLASS-156-DIG.6.4	c 44	N80-24741 *	US-PATENT-CLASS-156-289	c 52	N84-28389 *
US-PATENT-CLASS-148-188	c 09	N71-12513 *	US-PATENT-CLASS-156-DIG.6.4	c 76	N80-32245 *	US-PATENT-CLASS-156-289	c 37	N87-23981 *
US-PATENT-CLASS-148-188	c 44	N79-11468 *	US-PATENT-CLASS-156-DIG.6.4	c 76	N84-35113 *	US-PATENT-CLASS-156-290	c 24	N81-33235 *
US-PATENT-CLASS-148-188	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6.5	c 76	N79-11920 *	US-PATENT-CLASS-156-292	c 27	N80-32516 *
US-PATENT-CLASS-148-189	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6.5	c 76	N79-11920 *	US-PATENT-CLASS-156-292	c 24	N81-17170 *
US-PATENT-CLASS-148-189	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6.5	c 76	N85-30922 *	US-PATENT-CLASS-156-294	c 37	N81-14317 *
US-PATENT-CLASS-148-190	c 35	N87-14671 *	US-PATENT-CLASS-156-DIG.6	c 76	N83-35888 *	US-PATENT-CLASS-156-294	c 24	N81-29163 *
US-PATENT-CLASS-148-20.3	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24544 *	US-PATENT-CLASS-156-294	c 35	N84-12443 *
US-PATENT-CLASS-148-2	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.70	c 76	N88-24545 *	US-PATENT-CLASS-156-295	c 27	N81-14077 *
US-PATENT-CLASS-148-2	c 26	N79-22271 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24544 *	US-PATENT-CLASS-156-297	c 27	N89-12741 *
US-PATENT-CLASS-148-32	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.72	c 76	N88-24545 *	US-PATENT-CLASS-156-298	c 37	N87-23981 *
US-PATENT-CLASS-148-32.5	c 17	N72-22535 *	US-PATENT-CLASS-156-DIG.73	c 76	N83-35888 *	US-PATENT-CLASS-156-299	c 27	N89-12741 *
US-PATENT-CLASS-148-32.5	c 26	N77-20201 *	US-PATENT-CLASS-156-DIG.73	c 27	N83-36220 *	US-PATENT-CLASS-156-300	c 24	N78-17150 *
US-PATENT-CLASS-148-32.5	c 26	N77-32280 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24544 *	US-PATENT-CLASS-156-303	c 44	N80-18550 *
US-PATENT-CLASS-148-32.5	c 26	N78-18183 *	US-PATENT-CLASS-156-DIG.82	c 76	N88-24545 *	US-PATENT-CLASS-156-304.3	c 27	N84-22748 *
US-PATENT-CLASS-148-32	c 26	N77-32279 *	US-PATENT-CLASS-156-DIG.84	c 76	N88-24545 *	US-PATENT-CLASS-156-306	c 27	N84-22748 *
US-PATENT-CLASS-148-32	c 26	N80-23419 *	US-PATENT-CLASS-156-DIG.88	c 76	N79-11920 *	US-PATENT-CLASS-156-306	c 24	N78-17150 *
US-PATENT-CLASS-148-32.2	c 76	N85-30922 *	US-PATENT-CLASS-156-DIG.88	c 76	N80-32245 *	US-PATENT-CLASS-156-307.1	c 37	N87-23981 *
US-PATENT-CLASS-148-410	c 26	N87-28647 *	US-PATENT-CLASS-156-DIG.88	c 76	N84-35113 *	US-PATENT-CLASS-156-307.3	c 27	N82-11206 *
US-PATENT-CLASS-148-416	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.88	c 76	N85-30922 *	US-PATENT-CLASS-156-307.3	c 37	N87-23981 *
US-PATENT-CLASS-148-417	c 26	N89-28621 *	US-PATENT-CLASS-156-DIG.88	c 76	N86-28760 *	US-PATENT-CLASS-156-307.5	c 27	N82-11206 *
US-PATENT-CLASS-148-428	c 26	N82-31505 *	US-PATENT-CLASS-156-DIG.89	c 27	N83-36220 *	US-PATENT-CLASS-156-307.7	c 37	N87-23981 *
US-PATENT-CLASS-148-429	c 26	N87-14482 *	US-PATENT-CLASS-156-DIG.89	c 76	N88-24545 *	US-PATENT-CLASS-156-307.7	c 35	N88-30108 *
US-PATENT-CLASS-148-6.11	c 15	N71-24875 *	US-PATENT-CLASS-156-DIG.92	c 76	N88-24545 *	US-PATENT-CLASS-156-307	c 27	N86-20561 *
US-PATENT-CLASS-148-6.16	c 18	N71-23047 *	US-PATENT-CLASS-156-DIG.96	c 76	N80-32244 *	US-PATENT-CLASS-156-308	c 05	N72-25121 *
US-PATENT-CLASS-148-6.20	c 17	N71-23282 *	US-PATENT-CLASS-156-DIG.96	c 33	N81-19389 *	US-PATENT-CLASS-156-309.9	c 27	N86-20561 *
US-PATENT-CLASS-148-6.3	c 17	N71-33408 *	US-PATENT-CLASS-156-DIG.98	c 76	N84-35113 *	US-PATENT-CLASS-156-309	c 31	N74-18089 *
US-PATENT-CLASS-148-6.3	c 44	N79-18444 *	US-PATENT-CLASS-156-104	c 44	N80-18550 *	US-PATENT-CLASS-156-309	c 27	N78-17205 *
US-PATENT-CLASS-148-6.3	c 26	N87-25455 *	US-PATENT-CLASS-156-154	c 24	N78-17150 *	US-PATENT-CLASS-156-311	c 24	N78-17150 *
US-PATENT-CLASS-148-6	c 18	N71-29040 *	US-PATENT-CLASS-156-154	c 27	N81-14077 *	US-PATENT-CLASS-156-312	c 44	N80-18550 *
US-PATENT-CLASS-148-6	c 76	N79-16678 *	US-PATENT-CLASS-156-157	c 33	N82-26571 *	US-PATENT-CLASS-156-315	c 27	N82-24340 *
US-PATENT-CLASS-149-105	c 28	N78-31255 *	US-PATENT-CLASS-156-160	c 27	N81-14077 *	US-PATENT-CLASS-156-320	c 15	N72-11392 *
US-PATENT-CLASS-149-108.4	c 28	N80-23471 *	US-PATENT-CLASS-156-161	c 24	N81-29163 *	US-PATENT-CLASS-156-323	c 27	N81-14077 *
US-PATENT-CLASS-149-108.4	c 28	N81-15119 *	US-PATENT-CLASS-156-163	c 27	N81-14077 *	US-PATENT-CLASS-156-329	c 27	N82-29456 *
US-PATENT-CLASS-149-109	c 27	N70-41897 *	US-PATENT-CLASS-156-163	c 74	N87-28416 *	US-PATENT-CLASS-156-330	c 24	N81-14000 *
US-PATENT-CLASS-149-111	c 28	N78-31255 *	US-PATENT-CLASS-156-165	c 24	N81-29163 *	US-PATENT-CLASS-156-331.5	c 27	N82-11206 *
US-PATENT-CLASS-149-15	c 44	N80-20808 *	US-PATENT-CLASS-156-166	c 74	N85-29749 *	US-PATENT-CLASS-156-331.5	c 27	N86-20561 *
US-PATENT-CLASS-149-17	c 28	N74-33209 *	US-PATENT-CLASS-156-166	c 74	N75-12732 *	US-PATENT-CLASS-156-331	c 37	N74-18126 *
US-PATENT-CLASS-149-19.2	c 28	N80-28536 *	US-PATENT-CLASS-156-172	c 15	N71-17651 *	US-PATENT-CLASS-156-331	c 27	N78-17205 *
US-PATENT-CLASS-149-19.4	c 28	N78-31255 *	US-PATENT-CLASS-156-17	c 76	N79-21910 *	US-PATENT-CLASS-156-331	c 24	N79-16915 *
US-PATENT-CLASS-149-19.4	c 20	N78-32179 *	US-PATENT-CLASS-156-18	c 26	N73-26752 *	US-PATENT-CLASS-156-331	c 27	N81-14077 *
US-PATENT-CLASS-149-19.4	c 28	N79-28342 *	US-PATENT-CLASS-156-18	c 74	N75-12732 *	US-PATENT-CLASS-156-338	c 27	N82-24340 *
US-PATENT-CLASS-149-19.8	c 28	N78-31255 *	US-PATENT-CLASS-156-191	c 52	N84-28389 *	US-PATENT-CLASS-156-344	c 28	N81-14103 *
US-PATENT-CLASS-149-19.2	c 28	N79-14228 *	US-PATENT-CLASS-156-212	c 03	N71-26726 *	US-PATENT-CLASS-156-344	c 31	N83-34073 *
US-PATENT-CLASS-149-19.9	c 28	N79-14228 *	US-PATENT-CLASS-156-212	c 24	N80-26388 *	US-PATENT-CLASS-156-344	c 31	N90-19427 *
US-PATENT-CLASS-149-19.9	c 28	N79-28342 *	US-PATENT-CLASS-156-212	c 27	N81-14077 *	US-PATENT-CLASS-156-345	c 15	N70-42033 *
US-PATENT-CLASS-149-19.9	c 28	N80-28536 *	US-PATENT-CLASS-156-215	c 24	N80-26388 *	US-PATENT-CLASS-156-345	c 31	N87-21160 *
US-PATENT-CLASS-149-19	c 27	N71-14090 *	US-PATENT-CLASS-156-215	c 35	N84-12443 *	US-PATENT-CLASS-156-379.7	c 33	N82-26571 *
US-PATENT-CLASS-149-19	c 27	N72-25699 *	US-PATENT-CLASS-156-218	c 54	N74-32546 *	US-PATENT-CLASS-156-380.2	c 31	N85-29083 *
US-PATENT-CLASS-149-19	c 27	N73-16764 *	US-PATENT-CLASS-156-229	c 24	N77-28225 *	US-PATENT-CLASS-156-382	c 37	N76-21554 *
US-PATENT-CLASS-149-1	c 23	N71-16212 *	US-PATENT-CLASS-156-229	c 74	N87-28416 *	US-PATENT-CLASS-156-382	c 52	N84-28389 *
US-PATENT-CLASS-149-1	c 06	N73-30097 *	US-PATENT-CLASS-156-230	c 35	N84-12443 *	US-PATENT-CLASS-156-382	c 74	N87-28416 *
US-PATENT-CLASS-149-1	c 28	N80-20402 *	US-PATENT-CLASS-156-233	c 35	N88-30108 *	US-PATENT-CLASS-156-391	c 35	N84-12443 *
US-PATENT-CLASS-149-1	c 28	N81-14103 *	US-PATENT-CLASS-156-235	c 35	N84-12443 *	US-PATENT-CLASS-156-3	c 17	N71-16044 *
US-PATENT-CLASS-149-20	c 27	N72-25699 *	US-PATENT-CLASS-156-242	c 15	N69-24322 *	US-PATENT-CLASS-156-3	c 15	N71-21404 *
US-PATENT-CLASS-149-20	c 28	N79-14228 *	US-PATENT-CLASS-156-242	c 37	N76-24575 *	US-PATENT-CLASS-156-3	c 15	N71-24047 *
US-PATENT-CLASS-149-20	c 28	N79-28342 *	US-PATENT-CLASS-156-242	c 24	N81-33235 *	US-PATENT-CLASS-156-3	c 06	N72-21094 *
US-PATENT-CLASS-149-2	c 12	N70-40124 *	US-PATENT-CLASS-156-245	c 31	N74-18089 *	US-PATENT-CLASS-156-423	c 35	N84-12443 *
US-PATENT-CLASS-149-36	c 27	N72-25699 *	US-PATENT-CLASS-156-245	c 24	N78-17149 *	US-PATENT-CLASS-156-494	c 74	N87-28416 *
US-PATENT-CLASS-149-36	c 27	N73-16764 *	US-PATENT-CLASS-156-245	c 24	N81-33235 *	US-PATENT-CLASS-156-499	c 27	N84-22748 *
US-PATENT-CLASS-149-36	c 06	N73-30097 *	US-PATENT-CLASS-156-247	c 31	N74-18089 *	US-PATENT-CLASS-156-510	c 15	N71-17687 *
US-PATENT-CLASS-149-36	c 24	N76-14203 *	US-PATENT-CLASS-156-247	c 35	N88-30108 *	US-PATENT-CLASS-156-510	c 03	N72-25019 *
US-PATENT-CLASS-149-37	c 44	N80-20808 *	US-PATENT-CLASS-156-250	c 03	N72-25019 *	US-PATENT-CLASS-156-52	c 31	N79-21226 *
US-PATENT-CLASS-149-42	c 20	N78-32179 *	US-PATENT-CLASS-156-252	c 24	N81-33235 *	US-PATENT-CLASS-156-540	c 35	N84-12443 *

US-PATENT-CLASS-156-545	c 15	N71-24164 *	US-PATENT-CLASS-16-370	c 18	N87-14373 *	US-PATENT-CLASS-165-141	c 28	N73-32606 *
US-PATENT-CLASS-156-556	c 37	N76-21554 *	US-PATENT-CLASS-16-390	c 31	N86-19479 *	US-PATENT-CLASS-165-146	c 34	N79-13289 *
US-PATENT-CLASS-156-559	c 31	N83-34073 *	US-PATENT-CLASS-160-23R	c 37	N87-17036 *	US-PATENT-CLASS-165-155	c 33	N72-20915 *
US-PATENT-CLASS-156-600	c 27	N83-36220 *	US-PATENT-CLASS-160-265	c 37	N87-17036 *	US-PATENT-CLASS-165-156	c 25	N90-11824 *
US-PATENT-CLASS-156-601	c 76	N77-32919 *	US-PATENT-CLASS-161-115	c 18	N70-41583 *	US-PATENT-CLASS-165-158	c 33	N72-20915 *
US-PATENT-CLASS-156-601	c 76	N80-32245 *	US-PATENT-CLASS-161-116	c 37	N74-23064 *	US-PATENT-CLASS-165-161	c 33	N72-20915 *
US-PATENT-CLASS-156-602	c 76	N82-30105 *	US-PATENT-CLASS-161-127	c 18	N72-25540 *	US-PATENT-CLASS-165-164	c 34	N77-10463 *
US-PATENT-CLASS-156-605	c 44	N80-24741 *	US-PATENT-CLASS-161-127	c 18	N72-25541 *	US-PATENT-CLASS-165-166	c 54	N77-32722 *
US-PATENT-CLASS-156-607	c 76	N87-23286 *	US-PATENT-CLASS-161-161	c 33	N71-25351 *	US-PATENT-CLASS-165-169	c 34	N79-13288 *
US-PATENT-CLASS-156-607	c 76	N88-24544 *	US-PATENT-CLASS-161-182	c 15	N69-39735 *	US-PATENT-CLASS-165-169	c 34	N79-13289 *
US-PATENT-CLASS-156-608	c 76	N79-11920 *	US-PATENT-CLASS-161-182	c 37	N74-18126 *	US-PATENT-CLASS-165-169	c 31	N80-32583 *
US-PATENT-CLASS-156-608	c 33	N81-19389 *	US-PATENT-CLASS-161-189	c 23	N71-15978 *	US-PATENT-CLASS-165-170	c 34	N77-10463 *
US-PATENT-CLASS-156-608	c 76	N82-30105 *	US-PATENT-CLASS-161-192	c 37	N74-18126 *	US-PATENT-CLASS-165-170	c 34	N77-10463 *
US-PATENT-CLASS-156-608	c 76	N83-20789 *	US-PATENT-CLASS-161-196	c 37	N74-21063 *	US-PATENT-CLASS-165-174	c 33	N72-20915 *
US-PATENT-CLASS-156-608	c 76	N83-35888 *	US-PATENT-CLASS-161-214	c 06	N73-27980 *	US-PATENT-CLASS-165-185	c 28	N73-32606 *
US-PATENT-CLASS-156-608	c 76	N84-35113 *	US-PATENT-CLASS-161-227	c 06	N73-27980 *	US-PATENT-CLASS-165-185	c 34	N83-28356 *
US-PATENT-CLASS-156-60	c 15	N71-22713 *	US-PATENT-CLASS-161-42	c 37	N74-18126 *	US-PATENT-CLASS-165-1	c 09	N70-41717 *
US-PATENT-CLASS-156-610	c 76	N76-25049 *	US-PATENT-CLASS-161-43	c 37	N74-18126 *	US-PATENT-CLASS-165-1	c 34	N75-12222 *
US-PATENT-CLASS-156-610	c 27	N83-36220 *	US-PATENT-CLASS-161-67	c 33	N72-17947 *	US-PATENT-CLASS-165-1	c 34	N85-29180 *
US-PATENT-CLASS-156-610	c 76	N86-28760 *	US-PATENT-CLASS-161-68	c 18	N71-21651 *	US-PATENT-CLASS-165-1	c 34	N87-22950 *
US-PATENT-CLASS-156-612	c 76	N76-25049 *	US-PATENT-CLASS-161-68	c 18	N72-25540 *	US-PATENT-CLASS-165-1	c 34	N88-23958 *
US-PATENT-CLASS-156-612	c 44	N76-28635 *	US-PATENT-CLASS-161-68	c 18	N72-25541 *	US-PATENT-CLASS-165-20	c 03	N72-28025 *
US-PATENT-CLASS-156-612	c 76	N85-30922 *	US-PATENT-CLASS-161-69	c 33	N71-24858 *	US-PATENT-CLASS-165-2	c 33	N71-24876 *
US-PATENT-CLASS-156-613	c 76	N76-25049 *	US-PATENT-CLASS-161-7	c 18	N72-25540 *	US-PATENT-CLASS-165-2	c 35	N74-15093 *
US-PATENT-CLASS-156-613	c 44	N76-28635 *	US-PATENT-CLASS-161-7	c 18	N72-25541 *	US-PATENT-CLASS-165-2	c 44	N77-32581 *
US-PATENT-CLASS-156-614	c 44	N76-28635 *	US-PATENT-CLASS-161-89	c 17	N71-28747 *	US-PATENT-CLASS-165-2	c 44	N78-17460 *
US-PATENT-CLASS-156-617-H	c 76	N87-23286 *	US-PATENT-CLASS-161-92	c 37	N75-26371 *	US-PATENT-CLASS-165-2	c 51	N79-10694 *
US-PATENT-CLASS-156-617-SP	c 76	N84-35113 *	US-PATENT-CLASS-161-93	c 18	N73-12604 *	US-PATENT-CLASS-165-2	c 27	N83-36220 *
US-PATENT-CLASS-156-617-SP	c 76	N87-23286 *	US-PATENT-CLASS-161-93	c 37	N74-18126 *	US-PATENT-CLASS-165-30	c 51	N79-10694 *
US-PATENT-CLASS-156-617-V	c 76	N84-35113 *	US-PATENT-CLASS-161-93	c 37	N75-26371 *	US-PATENT-CLASS-165-30	c 31	N79-17029 *
US-PATENT-CLASS-156-617SP	c 76	N79-11920 *	US-PATENT-CLASS-162-102	c 24	N76-14204 *	US-PATENT-CLASS-165-30	c 35	N86-20750 *
US-PATENT-CLASS-156-617SP	c 76	N79-23798 *	US-PATENT-CLASS-162-14	c 85	N79-17747 *	US-PATENT-CLASS-165-32	c 31	N73-30829 *
US-PATENT-CLASS-156-617SP	c 44	N80-24741 *	US-PATENT-CLASS-162-153	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 33	N73-32818 *
US-PATENT-CLASS-156-617SP	c 76	N80-32245 *	US-PATENT-CLASS-162-222	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N78-17337 *
US-PATENT-CLASS-156-619	c 76	N77-32919 *	US-PATENT-CLASS-162-228	c 24	N76-14204 *	US-PATENT-CLASS-165-32	c 34	N79-31523 *
US-PATENT-CLASS-156-620.76	c 76	N88-24545 *	US-PATENT-CLASS-162-29	c 85	N79-17747 *	US-PATENT-CLASS-165-32	c 44	N80-20810 *
US-PATENT-CLASS-156-620	c 76	N77-32919 *	US-PATENT-CLASS-164-105	c 20	N79-21123 *	US-PATENT-CLASS-165-32	c 33	N82-24419 *
US-PATENT-CLASS-156-621	c 76	N88-14835 *	US-PATENT-CLASS-164-119	c 24	N84-16262 *	US-PATENT-CLASS-165-32	c 34	N83-35307 *
US-PATENT-CLASS-156-621	c 76	N88-24544 *	US-PATENT-CLASS-164-132	c 37	N76-23570 *	US-PATENT-CLASS-165-32	c 34	N84-14461 *
US-PATENT-CLASS-156-622	c 76	N88-14835 *	US-PATENT-CLASS-164-331.12	c 27	N83-34041 *	US-PATENT-CLASS-165-32	c 34	N85-29179 *
US-PATENT-CLASS-156-623Q	c 76	N85-29800 *	US-PATENT-CLASS-164-60	c 24	N77-27187 *	US-PATENT-CLASS-165-34	c 34	N87-22950 *
US-PATENT-CLASS-156-624	c 76	N83-20789 *	US-PATENT-CLASS-165-DIG.6	c 34	N84-22903 *	US-PATENT-CLASS-165-3	c 03	N72-28025 *
US-PATENT-CLASS-156-624	c 76	N86-28760 *	US-PATENT-CLASS-165-104.14	c 05	N81-26114 *	US-PATENT-CLASS-165-3	c 34	N84-14461 *
US-PATENT-CLASS-156-624	c 76	N88-14835 *	US-PATENT-CLASS-165-104.14	c 34	N85-29179 *	US-PATENT-CLASS-165-41	c 34	N86-27593 *
US-PATENT-CLASS-156-624	c 76	N88-24544 *	US-PATENT-CLASS-165-104.14	c 34	N86-27593 *	US-PATENT-CLASS-165-41	c 34	N88-23958 *
US-PATENT-CLASS-156-630	c 35	N84-22930 *	US-PATENT-CLASS-165-104.14	c 34	N87-22950 *	US-PATENT-CLASS-165-41	c 35	N89-12048 *
US-PATENT-CLASS-156-633	c 44	N78-25529 *	US-PATENT-CLASS-165-104.14	c 34	N88-23958 *	US-PATENT-CLASS-165-44	c 15	N71-26611 *
US-PATENT-CLASS-156-635	c 76	N83-20789 *	US-PATENT-CLASS-165-104.14	c 34	N89-14392 *	US-PATENT-CLASS-165-46	c 05	N71-19439 *
US-PATENT-CLASS-156-643	c 52	N84-23095 *	US-PATENT-CLASS-165-104.25	c 34	N87-22950 *	US-PATENT-CLASS-165-46	c 05	N71-24147 *
US-PATENT-CLASS-156-643	c 31	N87-21160 *	US-PATENT-CLASS-165-104.26	c 74	N83-19596 *	US-PATENT-CLASS-165-46	c 05	N73-20137 *
US-PATENT-CLASS-156-644	c 52	N84-23095 *	US-PATENT-CLASS-165-104.26	c 34	N83-35307 *	US-PATENT-CLASS-165-46	c 05	N73-26071 *
US-PATENT-CLASS-156-645	c 27	N77-32308 *	US-PATENT-CLASS-165-104.26	c 34	N85-21568 *	US-PATENT-CLASS-165-46	c 54	N82-29002 *
US-PATENT-CLASS-156-646	c 31	N87-21160 *	US-PATENT-CLASS-165-104.26	c 34	N85-29180 *	US-PATENT-CLASS-165-47	c 33	N71-29052 *
US-PATENT-CLASS-156-647	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 34	N86-27593 *	US-PATENT-CLASS-165-47	c 31	N73-30829 *
US-PATENT-CLASS-156-648	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 34	N87-22950 *	US-PATENT-CLASS-165-47	c 34	N75-12222 *
US-PATENT-CLASS-156-649	c 33	N81-26360 *	US-PATENT-CLASS-165-104.26	c 34	N88-29133 *	US-PATENT-CLASS-165-48R	c 35	N85-29214 *
US-PATENT-CLASS-156-654	c 76	N83-20789 *	US-PATENT-CLASS-165-104.26	c 34	N89-14392 *	US-PATENT-CLASS-165-58	c 27	N83-36220 *
US-PATENT-CLASS-156-654	c 35	N84-22930 *	US-PATENT-CLASS-165-104	c 33	N71-25353 *	US-PATENT-CLASS-165-61	c 34	N83-34221 *
US-PATENT-CLASS-156-659.1	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 09	N71-24807 *	US-PATENT-CLASS-165-61	c 35	N85-29214 *
US-PATENT-CLASS-156-661.1	c 31	N87-21160 *	US-PATENT-CLASS-165-105	c 33	N71-25353 *	US-PATENT-CLASS-165-61	c 35	N86-20750 *
US-PATENT-CLASS-156-662	c 76	N83-20789 *	US-PATENT-CLASS-165-105	c 33	N72-17948 *	US-PATENT-CLASS-165-61	c 31	N89-12785 *
US-PATENT-CLASS-156-663	c 27	N77-32308 *	US-PATENT-CLASS-165-105	c 31	N73-30829 *	US-PATENT-CLASS-165-64	c 35	N85-29214 *
US-PATENT-CLASS-156-668	c 52	N84-23095 *	US-PATENT-CLASS-165-105	c 28	N73-32606 *	US-PATENT-CLASS-165-65	c 35	N86-20750 *
US-PATENT-CLASS-156-66	c 15	N72-11392 *	US-PATENT-CLASS-165-105	c 34	N74-18552 *	US-PATENT-CLASS-165-65	c 34	N83-28356 *
US-PATENT-CLASS-156-71	c 33	N82-26571 *	US-PATENT-CLASS-165-105	c 34	N75-12222 *	US-PATENT-CLASS-165-76	c 37	N86-32736 *
US-PATENT-CLASS-156-71	c 35	N84-12443 *	US-PATENT-CLASS-165-105	c 44	N75-32581 *	US-PATENT-CLASS-165-80E	c 34	N83-34221 *
US-PATENT-CLASS-156-74	c 24	N81-29163 *	US-PATENT-CLASS-165-105	c 44	N76-16612 *	US-PATENT-CLASS-165-81	c 34	N88-29132 *
US-PATENT-CLASS-156-7	c 74	N75-12732 *	US-PATENT-CLASS-165-105	c 34	N76-17317 *	US-PATENT-CLASS-165-81	c 25	N90-11824 *
US-PATENT-CLASS-156-81	c 27	N84-22748 *	US-PATENT-CLASS-165-105	c 34	N76-27515 *	US-PATENT-CLASS-165-83	c 25	N90-11824 *
US-PATENT-CLASS-156-84	c 15	N72-16330 *	US-PATENT-CLASS-165-105	c 34	N77-32413 *	US-PATENT-CLASS-165-86	c 15	N71-26611 *
US-PATENT-CLASS-156-84	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 25	N78-10224 *	US-PATENT-CLASS-165-86	c 33	N71-29046 *
US-PATENT-CLASS-156-85	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 34	N78-17336 *	US-PATENT-CLASS-165-904	c 35	N89-12048 *
US-PATENT-CLASS-156-86	c 15	N72-16330 *	US-PATENT-CLASS-165-105	c 34	N78-17337 *	US-PATENT-CLASS-165-905	c 34	N88-29133 *
US-PATENT-CLASS-156-86	c 37	N82-24491 *	US-PATENT-CLASS-165-105	c 44	N79-18443 *	US-PATENT-CLASS-165-96	c 33	N70-36847 *
US-PATENT-CLASS-156-87	c 37	N87-23981 *	US-PATENT-CLASS-165-105	c 37	N79-28549 *	US-PATENT-CLASS-165-96	c 33	N71-22890 *
US-PATENT-CLASS-156-89	c 37	N75-15992 *	US-PATENT-CLASS-165-105	c 34	N79-31523 *	US-PATENT-CLASS-165-96	c 31	N73-30829 *
US-PATENT-CLASS-156-89	c 24	N79-25143 *	US-PATENT-CLASS-165-105	c 35	N81-14287 *	US-PATENT-CLASS-165-96	c 33	N73-32818 *
US-PATENT-CLASS-156-89	c 27	N84-22748 *	US-PATENT-CLASS-165-106	c 33	N73-32818 *	US-PATENT-CLASS-165-96	c 34	N78-17337 *
US-PATENT-CLASS-156-904	c 31	N87-21160 *	US-PATENT-CLASS-165-106	c 34	N76-17317 *	US-PATENT-CLASS-165-96	c 34	N84-14461 *
US-PATENT-CLASS-156-905	c 35	N84-22930 *	US-PATENT-CLASS-165-107	c 09	N71-24807 *	US-PATENT-CLASS-165-96	c 31	N89-12785 *
US-PATENT-CLASS-156-94	c 32	N74-27612 *	US-PATENT-CLASS-165-107	c 44	N77-32581 *	US-PATENT-CLASS-166-222	c 43	N81-26509 *
US-PATENT-CLASS-156-94	c 24	N74-30001 *	US-PATENT-CLASS-165-109	c 35	N74-15093 *	US-PATENT-CLASS-166-248	c 43	N78-14452 *
US-PATENT-CLASS-156-99	c 37	N75-15992 *	US-PATENT-CLASS-165-110	c 44	N76-31667 *	US-PATENT-CLASS-166-259	c 43	N78-14452 *
US-PATENT-CLASS-159-3	c 25	N88-23846 *	US-PATENT-CLASS-165-111	c 77	N75-20139 *	US-PATENT-CLASS-166-267	c 25	N82-23282 *
US-PATENT-CLASS-159-48.2	c 25	N88-23846 *	US-PATENT-CLASS-165-112	c 33	N71-24276 *	US-PATENT-CLASS-166-303	c 25	N82-23282 *
US-PATENT-CLASS-159-900	c 25	N88-23846 *	US-PATENT-CLASS-165-12	c 34	N83-34221 *	US-PATENT-CLASS-166-63	c 46	N79-22679 *
US-PATENT-CLASS-16-242	c 31	N86-19479 *	US-PATENT-CLASS-165-133	c 33	N71-16277 *	US-PATENT-CLASS-166-77	c 43	N81-26509 *
US-PATENT-CLASS-16-292	c 18	N88-23827 *	US-PATENT-CLASS-165-133	c 33	N71-25353 *	US-PATENT-CLASS-166-78	c 12	N72-21310 *
US-PATENT-CLASS-16-294	c 37	N86-19605 *	US-PATENT-CLASS-165-133	c 33	N72-20915 *	US-PATENT-CLASS-169-36	c 12	N72-21310 *
US-PATENT-CLASS-16-294	c 18	N87-14373 *	US-PATENT-CLASS-165-133	c 44	N76-23675 *	US-PATENT-CLASS-169-47	c 25	N83-36118 *
US-PATENT-CLASS-16-297	c 18	N88-23827 *	US-PATENT-CLASS-165-134R	c 74	N83-19596 *	US-PATENT-CLASS-169-62	c 31	N81-14137 *
US-PATENT-CLASS-16-326	c 18	N88-23827 *	US-PATENT-CLASS-165-134	c 34	N78-17336 *	US-PATENT-CLASS-173-131	c 15	N73-13463 *
US-PATENT-CLASS-16-332	c 18	N88-23827 *	US-PATENT-CLASS-165-135	c 34	N84-22903 *	US-PATENT-CLASS-173-132	c 37	N76-18454 *
US-PATENT-CLASS-16-345	c 18	N88-23827 *	US-PATENT-CLASS-165-138	c 09	N71-24807 *	US-PATENT-CLASS-174-DIG.6	c 26	N73-26752 *
US-PATENT-CLASS-16-347	c 18	N88-23827 *	US-PATENT-CLASS-165-13	c 34	N88-23958 *			
US-PATENT-CLASS-16-349	c 18	N88-23827 *						

US-PATENT-CLASS-174-DIG.6	c 26	N73-32571 *	US-PATENT-CLASS-178-6.6	c 07	N71-26102 *	US-PATENT-CLASS-179-158A	c 60	N77-12721 *
US-PATENT-CLASS-174-DIG.8	c 33	N74-22865 *	US-PATENT-CLASS-178-6.7R	c 35	N74-15831 *	US-PATENT-CLASS-179-158A	c 32	N80-18252 *
US-PATENT-CLASS-174-106R	c 09	N72-22198 *	US-PATENT-CLASS-178-6.7	c 07	N72-17109 *	US-PATENT-CLASS-179-158C	c 08	N72-25208 *
US-PATENT-CLASS-174-110.3	c 14	N71-27186 *	US-PATENT-CLASS-178-6.8	c 08	N72-22164 *	US-PATENT-CLASS-179-158C	c 07	N73-16121 *
US-PATENT-CLASS-174-111	c 33	N74-27683 *	US-PATENT-CLASS-178-6.8	c 14	N72-25412 *	US-PATENT-CLASS-179-158C	c 32	N74-30523 *
US-PATENT-CLASS-174-115	c 09	N70-38201 *	US-PATENT-CLASS-178-6.8	c 07	N73-30115 *	US-PATENT-CLASS-179-158C	c 33	N75-26243 *
US-PATENT-CLASS-174-117FF	c 09	N72-22198 *	US-PATENT-CLASS-178-6.8	c 33	N75-30431 *	US-PATENT-CLASS-179-158L	c 08	N72-22162 *
US-PATENT-CLASS-174-126CP	c 26	N73-32571 *	US-PATENT-CLASS-178-6.8	c 45	N76-17656 *	US-PATENT-CLASS-179-158M	c 07	N73-26118 *
US-PATENT-CLASS-174-142	c 33	N80-18286 *	US-PATENT-CLASS-178-66R	c 32	N75-24981 *	US-PATENT-CLASS-179-158S	c 10	N71-33407 *
US-PATENT-CLASS-174-145	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 09	N71-25866 *	US-PATENT-CLASS-179-158S	c 07	N72-20140 *
US-PATENT-CLASS-174-148	c 33	N76-16332 *	US-PATENT-CLASS-178-66	c 08	N72-18184 *	US-PATENT-CLASS-179-158S	c 07	N73-30115 *
US-PATENT-CLASS-174-15CA	c 31	N79-17029 *	US-PATENT-CLASS-178-67	c 08	N70-41961 *	US-PATENT-CLASS-179-158S	c 32	N75-26195 *
US-PATENT-CLASS-174-15C	c 33	N74-27683 *	US-PATENT-CLASS-178-67	c 32	N74-26654 *	US-PATENT-CLASS-179-158S	c 60	N77-19760 *
US-PATENT-CLASS-174-18	c 09	N69-21542 *	US-PATENT-CLASS-178-69.1	c 32	N78-15323 *	US-PATENT-CLASS-179-158V	c 07	N72-25172 *
US-PATENT-CLASS-174-28	c 07	N71-27191 *	US-PATENT-CLASS-178-69.4R	c 32	N74-10132 *	US-PATENT-CLASS-179-158Y	c 32	N74-30524 *
US-PATENT-CLASS-174-28	c 33	N74-27683 *	US-PATENT-CLASS-178-69.5R	c 07	N72-20140 *	US-PATENT-CLASS-179-15FD	c 08	N72-25208 *
US-PATENT-CLASS-174-35	c 07	N71-19436 *	US-PATENT-CLASS-178-69.5R	c 32	N75-26195 *	US-PATENT-CLASS-179-15FS	c 07	N73-28012 *
US-PATENT-CLASS-174-36	c 09	N72-22198 *	US-PATENT-CLASS-178-69.5R	c 33	N76-14371 *	US-PATENT-CLASS-179-15	c 07	N69-39978 *
US-PATENT-CLASS-174-52-PE	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5R	c 60	N77-19760 *	US-PATENT-CLASS-179-15	c 07	N71-20814 *
US-PATENT-CLASS-174-52-R	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 07	N71-11281 *	US-PATENT-CLASS-179-15	c 07	N71-24621 *
US-PATENT-CLASS-174-52-S	c 33	N88-23941 *	US-PATENT-CLASS-178-69.5	c 10	N71-19468 *	US-PATENT-CLASS-179-15	c 07	N71-24622 *
US-PATENT-CLASS-174-52S	c 15	N73-14469 *	US-PATENT-CLASS-178-69.5	c 10	N71-25865 *	US-PATENT-CLASS-179-15	c 08	N72-18184 *
US-PATENT-CLASS-174-68.5	c 15	N70-41960 *	US-PATENT-CLASS-178-69.5	c 10	N71-33407 *	US-PATENT-CLASS-179-175.1A	c 14	N77-23739 *
US-PATENT-CLASS-174-69	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N72-25173 *	US-PATENT-CLASS-179-175.1A	c 33	N78-10375 *
US-PATENT-CLASS-174-70R	c 33	N74-22865 *	US-PATENT-CLASS-178-69.5	c 07	N73-13149 *	US-PATENT-CLASS-179-18BC	c 32	N86-27513 *
US-PATENT-CLASS-174-72	c 03	N69-21539 *	US-PATENT-CLASS-178-69.5	c 09	N73-28084 *	US-PATENT-CLASS-179-18GF	c 33	N82-29538 *
US-PATENT-CLASS-174-73R	c 33	N80-18286 *	US-PATENT-CLASS-178-69.5	c 17	N76-22245 *	US-PATENT-CLASS-179-1	c 07	N71-26181 *
US-PATENT-CLASS-174-84	c 15	N72-17455 *	US-PATENT-CLASS-178-69A	c 35	N75-21582 *	US-PATENT-CLASS-179-1	c 31	N71-33160 *
US-PATENT-CLASS-175-1	c 46	N79-22679 *	US-PATENT-CLASS-178-69C	c 32	N76-16249 *	US-PATENT-CLASS-179-27CA	c 32	N79-23310 *
US-PATENT-CLASS-175-26	c 15	N73-32362 *	US-PATENT-CLASS-178-6	c 07	N71-19433 *	US-PATENT-CLASS-179-78	c 33	N81-27397 *
US-PATENT-CLASS-175-310	c 15	N70-42034 *	US-PATENT-CLASS-178-6	c 09	N71-19449 *	US-PATENT-CLASS-179-84VF	c 32	N79-23310 *
US-PATENT-CLASS-175-323	c 14	N69-21923 *	US-PATENT-CLASS-178-6	c 07	N71-23026 *	US-PATENT-CLASS-179-91R	c 74	N78-14889 *
US-PATENT-CLASS-175-45	c 35	N84-33768 *	US-PATENT-CLASS-178-6	c 07	N71-26579 *	US-PATENT-CLASS-18-26	c 06	N71-22975 *
US-PATENT-CLASS-175-78	c 46	N80-10709 *	US-PATENT-CLASS-178-6	c 07	N72-12081 *	US-PATENT-CLASS-18-39	c 27	N70-34783 *
US-PATENT-CLASS-176-11	c 24	N72-33681 *	US-PATENT-CLASS-178-6	c 16	N72-13437 *	US-PATENT-CLASS-18-6	c 15	N71-26721 *
US-PATENT-CLASS-176-11	c 25	N76-27383 *	US-PATENT-CLASS-178-6	c 10	N73-13235 *	US-PATENT-CLASS-180-105E	c 11	N72-20244 *
US-PATENT-CLASS-176-11	c 25	N76-29379 *	US-PATENT-CLASS-178-6	c 36	N74-20009 *	US-PATENT-CLASS-180-118	c 31	N71-15689 *
US-PATENT-CLASS-176-11	c 25	N78-27226 *	US-PATENT-CLASS-178-7.1	c 07	N71-24612 *	US-PATENT-CLASS-180-121	c 31	N71-15689 *
US-PATENT-CLASS-176-14	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 07	N71-27341 *	US-PATENT-CLASS-180-125	c 15	N72-17451 *
US-PATENT-CLASS-176-169	c 22	N73-32528 *	US-PATENT-CLASS-178-7.1	c 09	N72-17156 *	US-PATENT-CLASS-180-127	c 15	N72-17451 *
US-PATENT-CLASS-176-16	c 25	N76-27383 *	US-PATENT-CLASS-178-7.1	c 32	N74-19790 *	US-PATENT-CLASS-180-168	c 35	N84-33769 *
US-PATENT-CLASS-176-16	c 25	N76-29379 *	US-PATENT-CLASS-178-7.1	c 36	N75-19652 *	US-PATENT-CLASS-180-19.2	c 85	N87-21755 *
US-PATENT-CLASS-176-16	c 25	N78-27226 *	US-PATENT-CLASS-178-7.2R	c 08	N72-22164 *	US-PATENT-CLASS-180-305	c 85	N87-21755 *
US-PATENT-CLASS-176-22	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 14	N70-41807 *	US-PATENT-CLASS-180-41	c 11	N73-26238 *
US-PATENT-CLASS-176-33	c 73	N78-28913 *	US-PATENT-CLASS-178-7.2	c 71	N74-21014 *	US-PATENT-CLASS-180-6.5	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-19920 *	US-PATENT-CLASS-178-7.2	c 35	N75-25123 *	US-PATENT-CLASS-180-7R	c 11	N73-26238 *
US-PATENT-CLASS-176-39	c 73	N78-28913 *	US-PATENT-CLASS-178-7.3	c 07	N71-27341 *	US-PATENT-CLASS-180-79.3	c 37	N74-18125 *
US-PATENT-CLASS-176-3	c 75	N75-13625 *	US-PATENT-CLASS-178-7.3	c 07	N72-12081 *	US-PATENT-CLASS-180-8.6	c 18	N88-23828 *
US-PATENT-CLASS-176-45	c 22	N71-28759 *	US-PATENT-CLASS-178-7.5E	c 10	N72-31273 *	US-PATENT-CLASS-180-8A	c 11	N73-26238 *
US-PATENT-CLASS-176-86G	c 22	N72-20597 *	US-PATENT-CLASS-178-7.6	c 36	N74-20009 *	US-PATENT-CLASS-180-9.2R	c 11	N73-26238 *
US-PATENT-CLASS-177-147	c 35	N85-20294 *	US-PATENT-CLASS-178-7.7	c 09	N71-12539 *	US-PATENT-CLASS-180-9.5	c 11	N73-26238 *
US-PATENT-CLASS-177-1	c 35	N77-19385 *	US-PATENT-CLASS-178-7.7	c 32	N74-20813 *	US-PATENT-CLASS-181.5R	c 71	N74-31148 *
US-PATENT-CLASS-177-200	c 35	N74-26945 *	US-PATENT-CLASS-178-7.89	c 09	N76-24280 *	US-PATENT-CLASS-181-5	c 11	N71-28779 *
US-PATENT-CLASS-177-208	c 35	N77-19385 *	US-PATENT-CLASS-178-7.92	c 14	N72-25414 *	US-PATENT-CLASS-181-0.5	c 71	N85-30765 *
US-PATENT-CLASS-177-210	c 14	N71-10773 *	US-PATENT-CLASS-178-79	c 32	N75-21486 *	US-PATENT-CLASS-181-0.5	c 71	N88-24241 *
US-PATENT-CLASS-177-211	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 07	N71-12392 *	US-PATENT-CLASS-181-102	c 39	N80-10507 *
US-PATENT-CLASS-177-246	c 35	N74-26945 *	US-PATENT-CLASS-178-88	c 33	N74-12887 *	US-PATENT-CLASS-181-102	c 31	N80-32584 *
US-PATENT-CLASS-177-260	c 35	N85-20294 *	US-PATENT-CLASS-178-88	c 32	N74-20809 *	US-PATENT-CLASS-181-105	c 39	N80-10507 *
US-PATENT-CLASS-178-DIG.12	c 07	N72-12081 *	US-PATENT-CLASS-178-88	c 33	N74-27705 *	US-PATENT-CLASS-181-106	c 46	N79-22679 *
US-PATENT-CLASS-178-DIG.12	c 32	N75-21485 *	US-PATENT-CLASS-178-88	c 33	N76-14371 *	US-PATENT-CLASS-181-115	c 46	N79-23555 *
US-PATENT-CLASS-178-DIG.1	c 36	N74-20009 *	US-PATENT-CLASS-178-88	c 32	N76-16249 *	US-PATENT-CLASS-181-117	c 46	N79-22679 *
US-PATENT-CLASS-178-DIG.1	c 33	N75-30431 *	US-PATENT-CLASS-178-88	c 32	N77-10392 *	US-PATENT-CLASS-181-120	c 46	N79-23555 *
US-PATENT-CLASS-178-DIG.1	c 45	N76-17656 *	US-PATENT-CLASS-178-88	c 32	N77-24331 *	US-PATENT-CLASS-181-121	c 35	N84-22933 *
US-PATENT-CLASS-178-DIG.20	c 18	N76-14186 *	US-PATENT-CLASS-179-1DM	c 71	N79-23753 *	US-PATENT-CLASS-181-148	c 71	N79-23753 *
US-PATENT-CLASS-178-DIG.20	c 23	N72-27728 *	US-PATENT-CLASS-179-1MF	c 71	N79-23753 *	US-PATENT-CLASS-181-190	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.20	c 35	N75-19613 *	US-PATENT-CLASS-179-1MN	c 32	N79-23310 *	US-PATENT-CLASS-181-213	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.21	c 16	N72-13437 *	US-PATENT-CLASS-179-1P	c 10	N73-12244 *	US-PATENT-CLASS-181-213	c 07	N83-33884 *
US-PATENT-CLASS-178-DIG.23	c 07	N73-30115 *	US-PATENT-CLASS-179-1R	c 07	N71-33108 *	US-PATENT-CLASS-181-214	c 07	N81-14999 *
US-PATENT-CLASS-178-DIG.25	c 74	N75-25706 *	US-PATENT-CLASS-179-1SA	c 10	N73-25240 *	US-PATENT-CLASS-181-214	c 71	N82-16800 *
US-PATENT-CLASS-178-DIG.28	c 08	N72-22164 *	US-PATENT-CLASS-179-1SA	c 32	N76-31372 *	US-PATENT-CLASS-181-222	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.29	c 35	N75-25123 *	US-PATENT-CLASS-179-1SA	c 32	N77-30309 *	US-PATENT-CLASS-181-293	c 71	N79-14871 *
US-PATENT-CLASS-178-DIG.32	c 71	N74-21014 *	US-PATENT-CLASS-179-1SP	c 32	N77-30309 *	US-PATENT-CLASS-181-33C	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.35	c 09	N76-24280 *	US-PATENT-CLASS-179-1VC	c 07	N71-33108 *	US-PATENT-CLASS-181-33F	c 07	N74-32418 *
US-PATENT-CLASS-178-DIG.36	c 08	N72-22164 *	US-PATENT-CLASS-179-100.2A	c 21	N73-13644 *	US-PATENT-CLASS-181-33HB	c 07	N74-27490 *
US-PATENT-CLASS-178-DIG.6	c 10	N73-13235 *	US-PATENT-CLASS-179-100.2A	c 32	N74-27612 *	US-PATENT-CLASS-181-33HC	c 07	N74-33218 *
US-PATENT-CLASS-178-DIG.8	c 14	N72-25412 *	US-PATENT-CLASS-179-100.2B	c 32	N74-27612 *	US-PATENT-CLASS-181-33HC	c 07	N76-18117 *
US-PATENT-CLASS-178-DIG.8	c 45	N76-17656 *	US-PATENT-CLASS-179-100.2CH	c 36	N74-13205 *	US-PATENT-CLASS-181-33H	c 07	N74-32418 *
US-PATENT-CLASS-178-15	c 33	N75-19517 *	US-PATENT-CLASS-179-100.2CH	c 35	N78-29421 *	US-PATENT-CLASS-181-33L	c 07	N74-32418 *
US-PATENT-CLASS-178-18	c 10	N73-32143 *	US-PATENT-CLASS-179-100.2C	c 35	N79-16246 *	US-PATENT-CLASS-181-42	c 07	N74-32418 *
US-PATENT-CLASS-178-22.16	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2C	c 35	N77-21392 *	US-PATENT-CLASS-181-43	c 07	N74-15453 *
US-PATENT-CLASS-178-22.17	c 32	N82-31583 *	US-PATENT-CLASS-179-100.2D	c 07	N72-21119 *	US-PATENT-CLASS-181-52	c 28	N70-41582 *
US-PATENT-CLASS-178-5.2R	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 35	N74-11283 *	US-PATENT-CLASS-182-103	c 18	N89-12621 *
US-PATENT-CLASS-178-5.2R	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2T	c 35	N74-11283 *	US-PATENT-CLASS-182-10	c 15	N71-27067 *
US-PATENT-CLASS-178-5.4	c 07	N72-17109 *	US-PATENT-CLASS-179-100.2	c 09	N69-24329 *	US-PATENT-CLASS-182-152	c 31	N87-25492 *
US-PATENT-CLASS-178-5.8R	c 71	N74-21014 *	US-PATENT-CLASS-179-100.2	c 09	N71-25866 *	US-PATENT-CLASS-182-178	c 39	N76-31562 *
US-PATENT-CLASS-178-50	c 08	N72-18184 *	US-PATENT-CLASS-179-100.2	c 08	N71-27210 *	US-PATENT-CLASS-182-191	c 05	N71-11199 *
US-PATENT-CLASS-178-50	c 08	N72-25208 *	US-PATENT-CLASS-179-100.2	c 08	N71-27255 *	US-PATENT-CLASS-182-223	c 54	N87-29118 *
US-PATENT-CLASS-178-52	c 08	N72-22162 *	US-PATENT-CLASS-179-100.2CA	c 09	N72-11224 *	US-PATENT-CLASS-182-5	c 15	N73-25512 *
US-PATENT-CLASS-178-54CF	c 09	N71-28618 *	US-PATENT-CLASS-179-100.2MD	c 09	N72-11224 *	US-PATENT-CLASS-182-62.5	c 31	N81-27324 *
US-PATENT-CLASS-178-54PE	c 09	N71-28618 *	US-PATENT-CLASS-179-107R	c 33	N78-10375 *	US-PATENT-CLASS-182-63	c 54	N87-29118 *
US-PATENT-CLASS-178-58A	c 32	N75-21486 *	US-PATENT-CLASS-179-15.55R	c 08	N72-11171 *	US-PATENT-CLASS-182-62	c 54	N87-29118 *
US-PATENT-CLASS-178-58R	c 32	N80-18252 *	US-PATENT-CLASS-179-15.55R	c 08	N72-33172 *	US-PATENT-CLASS-184-1	c 15	N71-23048 *
US-PATENT-CLASS-178-6.5	c 23	N72-27728 *	US-PATENT-CLASS-179-15AN	c 07	N73-16121 *	US-PATENT-CLASS-185-38	c 37	N78-16369 *
US-PATENT-CLASS-178-6.6DD	c 07	N73-30115 *	US-PATENT-CLASS-179-15AT	c 32	N74-30524 *	US-PATENT-CLASS-187-1	c 15	N72-25453 *
US-PATENT-CLASS-178-6.6DD	c 35	N74-11283 *	US-PATENT-CLASS-179-15A	c 08	N72-22162 *	US-PATENT-CLASS-187-20	c 15	N72-25453 *
US-PATENT-CLASS-178-6.6	c 07	N71-11300 *	US-PATENT-CLASS-179-15A	c 07	N73-26118 *	US-PATENT-CLASS-187-7.1	c 07	N71-24742 *

US-PATENT-CLASS-187-95	c 15	N72-25453 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28618 *	US-PATENT-CLASS-204-171	c 27	N80-23452 *
US-PATENT-CLASS-188-1B	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28619 *	US-PATENT-CLASS-204-175	c 26	N78-32229 *
US-PATENT-CLASS-188-1B	c 19	N76-22284 *	US-PATENT-CLASS-2-2.1A	c 54	N86-28620 *	US-PATENT-CLASS-204-177	c 25	N75-12087 *
US-PATENT-CLASS-188-1C	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1A	c 54	N86-29507 *	US-PATENT-CLASS-204-180.1	c 25	N88-23845 *
US-PATENT-CLASS-188-1C	c 15	N72-20443 *	US-PATENT-CLASS-2-2.1A	c 18	N90-16860 *	US-PATENT-CLASS-204-180G	c 25	N78-14104 *
US-PATENT-CLASS-188-1C	c 15	N73-30460 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28618 *	US-PATENT-CLASS-204-180G	c 25	N79-14169 *
US-PATENT-CLASS-188-1C	c 11	N73-32152 *	US-PATENT-CLASS-2-2.1R	c 54	N86-28619 *	US-PATENT-CLASS-204-180P	c 37	N80-14397 *
US-PATENT-CLASS-188-1C	c 37	N79-10420 *	US-PATENT-CLASS-2-2.1	c 05	N71-11194 *	US-PATENT-CLASS-204-180P	c 54	N78-14784 *
US-PATENT-CLASS-188-103	c 15	N71-27146 *	US-PATENT-CLASS-2-2.1	c 05	N71-11195 *	US-PATENT-CLASS-204-180R	c 25	N74-26948 *
US-PATENT-CLASS-188-129	c 15	N72-17450 *	US-PATENT-CLASS-2-2.1	c 05	N71-12335 *	US-PATENT-CLASS-204-180R	c 34	N74-27744 *
US-PATENT-CLASS-188-134	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N71-12344 *	US-PATENT-CLASS-204-180R	c 51	N80-16715 *
US-PATENT-CLASS-188-151A	c 44	N79-14527 *	US-PATENT-CLASS-2-2.1	c 05	N71-23161 *	US-PATENT-CLASS-204-180S	c 25	N79-10163 *
US-PATENT-CLASS-188-163	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1	c 05	N71-24623 *	US-PATENT-CLASS-204-180S	c 25	N79-14169 *
US-PATENT-CLASS-188-171	c 37	N74-26976 *	US-PATENT-CLASS-2-2.1	c 05	N71-24730 *	US-PATENT-CLASS-204-192.15	c 26	N87-25455 *
US-PATENT-CLASS-188-180	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N72-20096 *	US-PATENT-CLASS-204-192.15	c 76	N88-24543 *
US-PATENT-CLASS-188-184	c 37	N81-15364 *	US-PATENT-CLASS-2-2.1	c 05	N72-20098 *	US-PATENT-CLASS-204-192.23	c 26	N87-25455 *
US-PATENT-CLASS-188-1	c 15	N70-34861 *	US-PATENT-CLASS-2-2.1	c 05	N72-25119 *	US-PATENT-CLASS-204-192.24	c 76	N88-24543 *
US-PATENT-CLASS-188-1	c 15	N70-38601 *	US-PATENT-CLASS-2-2.1	c 05	N73-26071 *	US-PATENT-CLASS-204-192.31	c 26	N88-14179 *
US-PATENT-CLASS-188-1	c 15	N70-40354 *	US-PATENT-CLASS-2-2.1	c 34	N78-17337 *	US-PATENT-CLASS-204-192C	c 27	N86-19458 *
US-PATENT-CLASS-188-1	c 14	N71-17626 *	US-PATENT-CLASS-2-2.1	c 54	N78-17678 *	US-PATENT-CLASS-204-192D	c 27	N86-19458 *
US-PATENT-CLASS-188-1	c 15	N71-22877 *	US-PATENT-CLASS-2-2.1	c 54	N78-18761 *	US-PATENT-CLASS-204-192R	c 27	N86-19458 *
US-PATENT-CLASS-188-1	c 14	N71-23092 *	US-PATENT-CLASS-2-201	c 54	N89-29953 *	US-PATENT-CLASS-204-192C	c 76	N79-14906 *
US-PATENT-CLASS-188-1	c 15	N71-26243 *	US-PATENT-CLASS-2-275	c 18	N71-26285 *	US-PATENT-CLASS-204-192C	c 26	N82-29415 *
US-PATENT-CLASS-188-1	c 15	N71-27146 *	US-PATENT-CLASS-2-6	c 05	N71-26333 *	US-PATENT-CLASS-204-192C	c 26	N82-30371 *
US-PATENT-CLASS-188-1	c 15	N71-27169 *	US-PATENT-CLASS-2-6	c 54	N78-17680 *	US-PATENT-CLASS-204-192C	c 24	N84-22695 *
US-PATENT-CLASS-188-218-XL	c 37	N88-29181 *	US-PATENT-CLASS-2-81	c 18	N71-26285 *	US-PATENT-CLASS-204-192C	c 31	N85-20153 *
US-PATENT-CLASS-188-251-A	c 37	N88-29181 *	US-PATENT-CLASS-2-81	c 05	N73-32012 *	US-PATENT-CLASS-204-192C	c 24	N85-21267 *
US-PATENT-CLASS-188-266	c 15	N73-25513 *	US-PATENT-CLASS-2-82	c 54	N74-32546 *	US-PATENT-CLASS-204-192C	c 76	N85-33826 *
US-PATENT-CLASS-188-268	c 15	N72-20443 *	US-PATENT-CLASS-200-114	c 33	N79-33393 *	US-PATENT-CLASS-204-192C	c 27	N86-32569 *
US-PATENT-CLASS-188-269	c 44	N79-14527 *	US-PATENT-CLASS-200-129	c 33	N75-27249 *	US-PATENT-CLASS-204-192C	c 31	N86-32587 *
US-PATENT-CLASS-188-291	c 54	N77-21844 *	US-PATENT-CLASS-200-152	c 09	N71-19610 *	US-PATENT-CLASS-204-192D	c 27	N86-32569 *
US-PATENT-CLASS-188-371	c 37	N82-18601 *	US-PATENT-CLASS-200-153S	c 33	N80-18285 *	US-PATENT-CLASS-204-192D	c 31	N86-32587 *
US-PATENT-CLASS-188-373	c 37	N88-23982 *	US-PATENT-CLASS-200-157	c 08	N86-27288 *	US-PATENT-CLASS-204-192EC	c 27	N82-28440 *
US-PATENT-CLASS-188-65.1	c 15	N73-25512 *	US-PATENT-CLASS-200-159	c 09	N70-39915 *	US-PATENT-CLASS-204-192EC	c 27	N82-33521 *
US-PATENT-CLASS-188-65.5	c 15	N71-27067 *	US-PATENT-CLASS-200-304	c 33	N80-18285 *	US-PATENT-CLASS-204-192EC	c 33	N84-22884 *
US-PATENT-CLASS-188-87	c 12	N71-16894 *	US-PATENT-CLASS-200-39	c 03	N70-38713 *	US-PATENT-CLASS-204-192E	c 37	N81-19455 *
US-PATENT-CLASS-188-88	c 15	N71-26611 *	US-PATENT-CLASS-200-46	c 74	N79-12890 *	US-PATENT-CLASS-204-192E	c 27	N82-28440 *
US-PATENT-CLASS-189-36	c 15	N70-36947 *	US-PATENT-CLASS-200-61.05	c 25	N86-27431 *	US-PATENT-CLASS-204-192E	c 27	N82-33521 *
US-PATENT-CLASS-191-205	c 37	N76-18456 *	US-PATENT-CLASS-200-61.42	c 09	N71-12518 *	US-PATENT-CLASS-204-192E	c 24	N83-10117 *
US-PATENT-CLASS-191-12.2-R	c 33	N86-20669 *	US-PATENT-CLASS-200-61.45	c 14	N70-41812 *	US-PATENT-CLASS-204-192E	c 52	N84-23095 *
US-PATENT-CLASS-192-43.1	c 15	N71-17805 *	US-PATENT-CLASS-200-61	c 74	N79-12890 *	US-PATENT-CLASS-204-192N	c 24	N85-21267 *
US-PATENT-CLASS-192-46	c 37	N87-17037 *	US-PATENT-CLASS-200-64	c 15	N72-17455 *	US-PATENT-CLASS-204-192N	c 26	N85-29005 *
US-PATENT-CLASS-192-67R	c 37	N87-17037 *	US-PATENT-CLASS-200-6	c 10	N71-15909 *	US-PATENT-CLASS-204-192P	c 76	N85-33826 *
US-PATENT-CLASS-194-902	c 37	N89-13785 *	US-PATENT-CLASS-200-6	c 09	N71-16089 *	US-PATENT-CLASS-204-192P	c 24	N84-22695 *
US-PATENT-CLASS-195-1.8	c 51	N77-25769 *	US-PATENT-CLASS-200-81.9M	c 09	N72-20199 *	US-PATENT-CLASS-204-192P	c 31	N85-20153 *
US-PATENT-CLASS-195-1.8	c 51	N79-10694 *	US-PATENT-CLASS-200-81R	c 09	N72-22204 *	US-PATENT-CLASS-204-192P	c 24	N85-21267 *
US-PATENT-CLASS-195-1.8	c 52	N79-14749 *	US-PATENT-CLASS-200-82C	c 09	N72-22204 *	US-PATENT-CLASS-204-192SP	c 24	N84-22695 *
US-PATENT-CLASS-195-103.5K	c 51	N77-22794 *	US-PATENT-CLASS-200-82	c 10	N71-23663 *	US-PATENT-CLASS-204-192SP	c 31	N85-20153 *
US-PATENT-CLASS-195-103.5K	c 52	N79-14750 *	US-PATENT-CLASS-200-83N	c 35	N75-15931 *	US-PATENT-CLASS-204-192	c 15	N73-12487 *
US-PATENT-CLASS-195-103.5L	c 52	N79-14750 *	US-PATENT-CLASS-200-83	c 33	N79-33392 *	US-PATENT-CLASS-204-192	c 17	N73-24569 *
US-PATENT-CLASS-195-103.5R	c 06	N72-25149 *	US-PATENT-CLASS-201-10	c 27	N81-17261 *	US-PATENT-CLASS-204-192	c 27	N74-13270 *
US-PATENT-CLASS-195-103.5R	c 25	N75-12086 *	US-PATENT-CLASS-201-17	c 44	N78-31527 *	US-PATENT-CLASS-204-192	c 20	N74-13269 *
US-PATENT-CLASS-195-103.5R	c 35	N75-27330 *	US-PATENT-CLASS-201-17	c 25	N81-33246 *	US-PATENT-CLASS-204-192	c 37	N75-19684 *
US-PATENT-CLASS-195-103.5R	c 35	N75-33368 *	US-PATENT-CLASS-201-17	c 25	N82-29371 *	US-PATENT-CLASS-204-192	c 44	N77-14580 *
US-PATENT-CLASS-195-103.5R	c 51	N76-29891 *	US-PATENT-CLASS-201-17	c 25	N83-17443 *	US-PATENT-CLASS-204-195B	c 25	N79-24073 *
US-PATENT-CLASS-195-103.5R	c 51	N77-22794 *	US-PATENT-CLASS-201-17	c 25	N85-35253 *	US-PATENT-CLASS-204-195B	c 51	N80-27067 *
US-PATENT-CLASS-195-103.5R	c 25	N79-22235 *	US-PATENT-CLASS-201-25	c 27	N81-17261 *	US-PATENT-CLASS-204-195B	c 51	N81-28698 *
US-PATENT-CLASS-195-120	c 51	N75-13502 *	US-PATENT-CLASS-201-8	c 27	N81-17261 *	US-PATENT-CLASS-204-195B	c 35	N82-28604 *
US-PATENT-CLASS-195-120	c 35	N75-27330 *	US-PATENT-CLASS-202-118	c 31	N81-15154 *	US-PATENT-CLASS-204-195R	c 33	N76-19339 *
US-PATENT-CLASS-195-127	c 15	N72-21465 *	US-PATENT-CLASS-202-182	c 05	N71-11207 *	US-PATENT-CLASS-204-195S	c 25	N82-12166 *
US-PATENT-CLASS-195-127	c 11	N72-25284 *	US-PATENT-CLASS-202-234	c 15	N71-23086 *	US-PATENT-CLASS-204-195W	c 35	N78-25391 *
US-PATENT-CLASS-195-127	c 14	N72-25413 *	US-PATENT-CLASS-203-12	c 25	N82-28368 *	US-PATENT-CLASS-204-195	c 14	N71-17575 *
US-PATENT-CLASS-195-127	c 15	N73-20514 *	US-PATENT-CLASS-203-90	c 25	N88-23846 *	US-PATENT-CLASS-204-2.1	c 44	N81-29524 *
US-PATENT-CLASS-195-127	c 05	N73-32011 *	US-PATENT-CLASS-203-91	c 25	N88-23846 *	US-PATENT-CLASS-204-20	c 18	N71-16210 *
US-PATENT-CLASS-195-127	c 35	N75-12272 *	US-PATENT-CLASS-203-98	c 25	N88-23846 *	US-PATENT-CLASS-204-222	c 31	N74-23065 *
US-PATENT-CLASS-195-127	c 51	N75-13502 *	US-PATENT-CLASS-204-DIG.11	c 25	N77-32255 *	US-PATENT-CLASS-204-224	c 37	N80-14395 *
US-PATENT-CLASS-195-127	c 35	N75-27330 *	US-PATENT-CLASS-204-DIG.3	c 25	N84-12262 *	US-PATENT-CLASS-204-242	c 33	N75-27252 *
US-PATENT-CLASS-195-127	c 25	N79-22235 *	US-PATENT-CLASS-204-DIG.3	c 44	N84-23019 *	US-PATENT-CLASS-204-242	c 25	N84-12262 *
US-PATENT-CLASS-195-127	c 25	N79-24073 *	US-PATENT-CLASS-204-1T	c 25	N79-22235 *	US-PATENT-CLASS-204-252	c 28	N81-24280 *
US-PATENT-CLASS-195-141	c 35	N75-27330 *	US-PATENT-CLASS-204-1T	c 51	N81-28698 *	US-PATENT-CLASS-204-263	c 14	N71-28933 *
US-PATENT-CLASS-195-28N	c 06	N72-25149 *	US-PATENT-CLASS-204-1T	c 25	N82-12166 *	US-PATENT-CLASS-204-263	c 25	N82-12166 *
US-PATENT-CLASS-195-66R	c 06	N73-27086 *	US-PATENT-CLASS-204-1T	c 76	N84-35112 *	US-PATENT-CLASS-204-264	c 25	N82-12166 *
US-PATENT-CLASS-195-68	c 04	N69-27487 *	US-PATENT-CLASS-204-1T	c 35	N85-29212 *	US-PATENT-CLASS-204-266	c 28	N81-24280 *
US-PATENT-CLASS-195-99	c 06	N71-17705 *	US-PATENT-CLASS-204-1T	c 76	N85-30923 *	US-PATENT-CLASS-204-266	c 25	N82-12166 *
US-PATENT-CLASS-197-188	c 37	N77-19457 *	US-PATENT-CLASS-204-129.55	c 31	N83-19947 *	US-PATENT-CLASS-204-267	c 33	N75-27252 *
US-PATENT-CLASS-197-190	c 37	N77-19457 *	US-PATENT-CLASS-204-129.75	c 31	N83-19947 *	US-PATENT-CLASS-204-275	c 25	N82-12166 *
US-PATENT-CLASS-198-847	c 37	N80-32717 *	US-PATENT-CLASS-204-129	c 28	N81-24280 *	US-PATENT-CLASS-204-276	c 25	N82-12166 *
US-PATENT-CLASS-198-848	c 37	N80-32717 *	US-PATENT-CLASS-204-129	c 25	N84-12262 *	US-PATENT-CLASS-204-278	c 25	N82-12166 *
US-PATENT-CLASS-1	c 14	N71-27005 *	US-PATENT-CLASS-204-129	c 44	N84-23019 *	US-PATENT-CLASS-204-278	c 25	N84-12262 *
US-PATENT-CLASS-2-115	c 05	N72-25119 *	US-PATENT-CLASS-204-130	c 15	N72-21466 *	US-PATENT-CLASS-204-278	c 44	N84-23019 *
US-PATENT-CLASS-2-14	c 05	N71-23096 *	US-PATENT-CLASS-204-157.1H	c 25	N74-30502 *	US-PATENT-CLASS-204-279	c 33	N75-27252 *
US-PATENT-CLASS-2-161R	c 54	N84-23113 *	US-PATENT-CLASS-204-157.1H	c 37	N76-18458 *	US-PATENT-CLASS-204-280R	c 25	N83-13187 *
US-PATENT-CLASS-2-161R	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1R	c 25	N77-32255 *	US-PATENT-CLASS-204-280	c 44	N84-23019 *
US-PATENT-CLASS-2-161	c 54	N78-17677 *	US-PATENT-CLASS-204-157.1R	c 44	N77-32255 *	US-PATENT-CLASS-204-286	c 33	N75-27252 *
US-PATENT-CLASS-2-164	c 54	N84-28484 *	US-PATENT-CLASS-204-157.1R	c 44	N79-11470 *	US-PATENT-CLASS-204-290F	c 28	N81-24280 *
US-PATENT-CLASS-2-167	c 54	N84-23113 *	US-PATENT-CLASS-204-157.18AG	c 15	N72-25452 *	US-PATENT-CLASS-204-290F	c 44	N82-29710 *
US-PATENT-CLASS-2-167	c 54	N84-28484 *	US-PATENT-CLASS-204-157.22	c 25	N88-24732 *	US-PATENT-CLASS-204-290R	c 33	N75-27252 *
US-PATENT-CLASS-2-2.1A	c 05	N72-22092 *	US-PATENT-CLASS-204-158R	c 25	N77-32255 *	US-PATENT-CLASS-204-290R	c 28	N81-24280 *
US-PATENT-CLASS-2-2.1A	c 05	N73-25125 *	US-PATENT-CLASS-204-159.11	c 27	N80-32516 *	US-PATENT-CLASS-204-290R	c 44	N82-29710 *
US-PATENT-CLASS-2-2.1A	c 05	N73-32012 *	US-PATENT-CLASS-204-159.14	c 27	N80-32516 *	US-PATENT-CLASS-204-290R	c 25	N84-12262 *
US-PATENT-CLASS-2-2.1A	c 54	N74-32546 *	US-PATENT-CLASS-204-159.15	c 27	N80-26446 *	US-PATENT-CLASS-204-290	c 44	N84-28205 *
US-PATENT-CLASS-2-2.1A	c 54	N77-32721 *	US-PATENT-CLASS-204-159.19	c 27	N80-26446 *	US-PATENT-CLASS-204-291	c 28	N81-24280 *
US-PATENT-CLASS-2-2.1A	c 54	N78-17675 *	US-PATENT-CLASS-204-162R	c 25	N77-32255 *	US-PATENT-CLASS-204-292	c 25	N78-10225 *
US-PATENT-CLASS-2-2.1A	c 54	N78-31735 *	US-PATENT-CLASS-204-164	c 26	N78-32229 *	US-PATENT-CLASS-204-298	c 15	N70-34967 *
US-PATENT-CLASS-2-2.1A	c 54	N78-31736 *	US-PATENT-CLASS-204-168	c 24	N71-25555 *	US-PATENT-CLASS-204-298	c 09	N71-26701 *
US-PATENT-CLASS-2-2.1A	c 54	N79-24651 *	US-PATENT-CLASS-204-16	c 24	N77-19171 *	US-PATENT-CLASS-204-298	c 15	N72-32487 *

US-PATENT-CLASS-204-298

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US-PATENT-CLASS-204-298	c 37	N75-19684 *	US-PATENT-CLASS-210-304	c 34	N75-33342 *	US-PATENT-CLASS-219-121	c 33	N70-34540 *
US-PATENT-CLASS-204-298	c 27	N86-32569 *	US-PATENT-CLASS-210-314	c 28	N70-41447 *	US-PATENT-CLASS-219-121	c 15	N71-19486 *
US-PATENT-CLASS-204-298	c 31	N86-32587 *	US-PATENT-CLASS-210-321.1	c 25	N82-21269 *	US-PATENT-CLASS-219-121	c 16	N71-20400 *
US-PATENT-CLASS-204-298	c 31	N87-21160 *	US-PATENT-CLASS-210-321B	c 52	N80-14687 *	US-PATENT-CLASS-219-121	c 15	N71-21735 *
US-PATENT-CLASS-204-299R	c 25	N88-23845 *	US-PATENT-CLASS-210-333	c 34	N75-33342 *	US-PATENT-CLASS-219-124.02	c 37	N88-30131 *
US-PATENT-CLASS-204-299R	c 25	N78-14104 *	US-PATENT-CLASS-210-340	c 34	N75-33342 *	US-PATENT-CLASS-219-124.2.2	c 37	N79-10421 *
US-PATENT-CLASS-204-299R	c 25	N79-14169 *	US-PATENT-CLASS-210-340	c 37	N80-10494 *	US-PATENT-CLASS-219-124.32	c 37	N79-10421 *
US-PATENT-CLASS-204-299R	c 37	N80-14397 *	US-PATENT-CLASS-210-355	c 51	N90-17252 *	US-PATENT-CLASS-219-124.34	c 37	N86-21850 *
US-PATENT-CLASS-204-299R	c 51	N80-16715 *	US-PATENT-CLASS-210-40	c 27	N77-31308 *	US-PATENT-CLASS-219-124.34	c 74	N87-17493 *
US-PATENT-CLASS-204-299R	c 25	N83-10126 *	US-PATENT-CLASS-210-40	c 85	N79-17747 *	US-PATENT-CLASS-219-124.34	c 74	N87-25843 *
US-PATENT-CLASS-204-299R	c 25	N83-13187 *	US-PATENT-CLASS-210-40	c 45	N82-11634 *	US-PATENT-CLASS-219-124.34	c 37	N88-14362 *
US-PATENT-CLASS-204-299	c 34	N74-27744 *	US-PATENT-CLASS-210-411	c 35	N75-33342 *	US-PATENT-CLASS-219-125.1	c 37	N79-10421 *
US-PATENT-CLASS-204-299	c 25	N79-10163 *	US-PATENT-CLASS-210-414	c 51	N90-17252 *	US-PATENT-CLASS-219-125	c 15	N71-23815 *
US-PATENT-CLASS-204-301	c 54	N78-14784 *	US-PATENT-CLASS-210-425	c 34	N75-33342 *	US-PATENT-CLASS-219-125	c 37	N75-27376 *
US-PATENT-CLASS-204-305	c 03	N71-24718 *	US-PATENT-CLASS-210-429	c 37	N76-14463 *	US-PATENT-CLASS-219-130.01	c 74	N87-17493 *
US-PATENT-CLASS-204-30	c 09	N71-28691 *	US-PATENT-CLASS-210-433M	c 51	N79-10693 *	US-PATENT-CLASS-219-130.01	c 74	N87-25843 *
US-PATENT-CLASS-204-32A	c 33	N77-26385 *	US-PATENT-CLASS-210-445	c 15	N72-11389 *	US-PATENT-CLASS-219-130.01	c 37	N88-14362 *
US-PATENT-CLASS-204-32R	c 44	N76-14595 *	US-PATENT-CLASS-210-45	c 85	N79-17747 *	US-PATENT-CLASS-219-130.4	c 37	N88-30131 *
US-PATENT-CLASS-204-324	c 33	N73-16918 *	US-PATENT-CLASS-210-500.25	c 31	N88-29052 *	US-PATENT-CLASS-219-130	c 15	N71-23798 *
US-PATENT-CLASS-204-325	c 33	N73-16918 *	US-PATENT-CLASS-210-500.35	c 31	N88-29052 *	US-PATENT-CLASS-219-131	c 15	N71-15871 *
US-PATENT-CLASS-204-328	c 33	N73-16918 *	US-PATENT-CLASS-210-500M	c 27	N80-23452 *	US-PATENT-CLASS-219-136	c 37	N88-14362 *
US-PATENT-CLASS-204-32	c 44	N79-11469 *	US-PATENT-CLASS-210-500M	c 25	N81-17187 *	US-PATENT-CLASS-219-137.42	c 37	N88-23980 *
US-PATENT-CLASS-204-33	c 17	N71-25903 *	US-PATENT-CLASS-210-500	c 25	N75-12087 *	US-PATENT-CLASS-219-137	c 15	N70-34814 *
US-PATENT-CLASS-204-33	c 44	N76-14595 *	US-PATENT-CLASS-210-50	c 45	N79-12584 *	US-PATENT-CLASS-219-137	c 37	N75-19683 *
US-PATENT-CLASS-204-33	c 44	N79-11469 *	US-PATENT-CLASS-210-512	c 34	N75-33342 *	US-PATENT-CLASS-219-158	c 15	N72-22491 *
US-PATENT-CLASS-204-33	c 44	N83-34449 *	US-PATENT-CLASS-210-54	c 85	N79-17747 *	US-PATENT-CLASS-219-160	c 37	N80-23655 *
US-PATENT-CLASS-204-35N	c 27	N83-29388 *	US-PATENT-CLASS-210-54	c 85	N80-14579 *	US-PATENT-CLASS-219-161	c 37	N80-23655 *
US-PATENT-CLASS-204-35N	c 44	N83-34449 *	US-PATENT-CLASS-210-57	c 45	N84-12654 *	US-PATENT-CLASS-219-19	c 33	N70-34812 *
US-PATENT-CLASS-204-37	c 76	N84-35112 * #	US-PATENT-CLASS-210-602	c 45	N84-12654 *	US-PATENT-CLASS-219-201	c 52	N80-16725 *
US-PATENT-CLASS-204-37R	c 44	N79-11469 *	US-PATENT-CLASS-210-605	c 45	N84-12654 *	US-PATENT-CLASS-219-201	c 37	N85-29286 *
US-PATENT-CLASS-204-37R	c 27	N83-29388 *	US-PATENT-CLASS-210-60	c 45	N79-12584 *	US-PATENT-CLASS-219-203	c 11	N73-12265 *
US-PATENT-CLASS-204-37	c 33	N71-29151 *	US-PATENT-CLASS-210-617	c 45	N84-12654 *	US-PATENT-CLASS-219-203	c 27	N84-33589 *
US-PATENT-CLASS-204-38A	c 44	N76-14595 *	US-PATENT-CLASS-210-63R	c 25	N78-10225 *	US-PATENT-CLASS-219-209	c 35	N81-26431 *
US-PATENT-CLASS-204-38B	c 44	N79-11469 *	US-PATENT-CLASS-210-63R	c 45	N79-12584 *	US-PATENT-CLASS-219-210	c 35	N81-26431 *
US-PATENT-CLASS-204-38B	c 27	N82-33521 *	US-PATENT-CLASS-210-63Z	c 45	N80-14579 *	US-PATENT-CLASS-219-216	c 35	N74-15831 *
US-PATENT-CLASS-204-38	c 17	N71-24830 *	US-PATENT-CLASS-210-639	c 31	N88-29052 *	US-PATENT-CLASS-219-219	c 27	N84-33589 *
US-PATENT-CLASS-204-40	c 44	N76-14595 *	US-PATENT-CLASS-210-653	c 31	N88-29052 *	US-PATENT-CLASS-219-221	c 15	N72-11392 *
US-PATENT-CLASS-204-40	c 24	N77-19171 *	US-PATENT-CLASS-210-66	c 85	N79-17747 *	US-PATENT-CLASS-219-221	c 37	N85-29286 *
US-PATENT-CLASS-204-42	c 44	N76-14595 *	US-PATENT-CLASS-210-67	c 85	N79-17747 *	US-PATENT-CLASS-219-229	c 15	N71-27214 *
US-PATENT-CLASS-204-430	c 35	N85-29212 *	US-PATENT-CLASS-210-70	c 85	N79-17747 *	US-PATENT-CLASS-219-234	c 15	N72-22491 *
US-PATENT-CLASS-204-49	c 15	N72-25452 *	US-PATENT-CLASS-210-71	c 25	N78-10225 *	US-PATENT-CLASS-219-234	c 15	N72-23497 *
US-PATENT-CLASS-204-49	c 44	N76-14595 *	US-PATENT-CLASS-210-73R	c 85	N79-17747 *	US-PATENT-CLASS-219-243	c 15	N72-11392 *
US-PATENT-CLASS-204-56R	c 44	N83-10494 *	US-PATENT-CLASS-210-748	c 71	N83-35781 *	US-PATENT-CLASS-219-273	c 15	N72-32487 *
US-PATENT-CLASS-204-56R	c 27	N83-29388 *	US-PATENT-CLASS-210-748	c 35	N84-17555 *	US-PATENT-CLASS-219-275	c 15	N71-20395 *
US-PATENT-CLASS-204-56R	c 76	N84-35112 * #	US-PATENT-CLASS-210-82	c 34	N75-33342 *	US-PATENT-CLASS-219-275	c 20	N87-16875 *
US-PATENT-CLASS-204-59	c 15	N72-21466 *	US-PATENT-CLASS-210-96M	c 54	N78-14784 *	US-PATENT-CLASS-219-285	c 37	N85-29286 *
US-PATENT-CLASS-204-9	c 20	N74-32919 *	US-PATENT-CLASS-210-96M	c 51	N79-10693 *	US-PATENT-CLASS-219-299	c 51	N79-10694 *
US-PATENT-CLASS-204-9	c 24	N77-19171 *	US-PATENT-CLASS-211-126	c 35	N86-20751 *	US-PATENT-CLASS-219-300	c 37	N77-13418 *
US-PATENT-CLASS-204/298	c 27	N86-19458 *	US-PATENT-CLASS-211-74	c 35	N86-20751 *	US-PATENT-CLASS-219-302	c 51	N79-10694 *
US-PATENT-CLASS-2041-195B	c 25	N79-22235 *	US-PATENT-CLASS-212-11	c 32	N71-17609 *	US-PATENT-CLASS-219-304	c 37	N77-13418 *
US-PATENT-CLASS-205-343	c 35	N75-30502 *	US-PATENT-CLASS-212-134	c 15	N72-11388 *	US-PATENT-CLASS-219-343	c 27	N83-36220 *
US-PATENT-CLASS-206-0.7	c 31	N89-29578 *	US-PATENT-CLASS-212-225	c 18	N89-12621 *	US-PATENT-CLASS-219-347	c 15	N69-27871 *
US-PATENT-CLASS-206-439	c 52	N79-14749 *	US-PATENT-CLASS-212-230	c 37	N86-20789 *	US-PATENT-CLASS-219-347	c 33	N70-34545 *
US-PATENT-CLASS-206-447	c 27	N84-14323 *	US-PATENT-CLASS-212-257	c 18	N89-12621 *	US-PATENT-CLASS-219-348	c 15	N73-27405 *
US-PATENT-CLASS-206-582	c 27	N84-14323 *	US-PATENT-CLASS-212-267	c 31	N81-27324 *	US-PATENT-CLASS-219-34	c 09	N70-33312 *
US-PATENT-CLASS-208-10	c 25	N79-11152 *	US-PATENT-CLASS-213-81	c 37	N77-23483 *	US-PATENT-CLASS-219-354	c 27	N83-36220 *
US-PATENT-CLASS-208-10	c 23	N84-16255 *	US-PATENT-CLASS-214-1CM	c 37	N76-15460 *	US-PATENT-CLASS-219-364	c 33	N71-16278 *
US-PATENT-CLASS-208-10	c 25	N84-22709 *	US-PATENT-CLASS-214-1BC	c 54	N77-32721 *	US-PATENT-CLASS-219-378	c 33	N71-25353 *
US-PATENT-CLASS-208-11	c 25	N86-25428 *	US-PATENT-CLASS-214-1B	c 54	N75-27758 *	US-PATENT-CLASS-219-383	c 09	N88-28939 *
US-PATENT-CLASS-208-241	c 25	N82-23282 *	US-PATENT-CLASS-214-1CM	c 15	N72-28495 *	US-PATENT-CLASS-219-388	c 35	N74-15831 *
US-PATENT-CLASS-208-8LE	c 23	N84-16255 *	US-PATENT-CLASS-214-1CM	c 54	N75-12616 *	US-PATENT-CLASS-219-390	c 27	N83-36220 *
US-PATENT-CLASS-208-8LE	c 25	N84-22709 *	US-PATENT-CLASS-214-1CM	c 18	N75-27041 *	US-PATENT-CLASS-219-390	c 35	N86-20750 *
US-PATENT-CLASS-208-8	c 25	N79-11152 *	US-PATENT-CLASS-214-1CM	c 54	N75-27758 *	US-PATENT-CLASS-219-395	c 35	N86-20750 *
US-PATENT-CLASS-209-10	c 15	N71-20440 *	US-PATENT-CLASS-214-1CM	c 37	N77-23483 *	US-PATENT-CLASS-219-396	c 35	N86-20750 *
US-PATENT-CLASS-209-127R	c 35	N76-22509 *	US-PATENT-CLASS-214-1CM	c 54	N77-32721 *	US-PATENT-CLASS-219-410	c 12	N79-26075 *
US-PATENT-CLASS-209-250	c 37	N76-18456 *	US-PATENT-CLASS-214-1CM	c 54	N78-17676 *	US-PATENT-CLASS-219-411	c 17	N69-25147 *
US-PATENT-CLASS-209-300	c 37	N76-18456 *	US-PATENT-CLASS-214-1CB	c 37	N76-15457 *	US-PATENT-CLASS-219-411	c 27	N83-36220 *
US-PATENT-CLASS-209-305	c 37	N76-18456 *	US-PATENT-CLASS-214-16.1CB	c 37	N77-22480 *	US-PATENT-CLASS-219-413	c 14	N71-28958 *
US-PATENT-CLASS-209-349	c 15	N72-22483 *	US-PATENT-CLASS-214-1	c 32	N70-41367 *	US-PATENT-CLASS-219-477	c 33	N74-14935 *
US-PATENT-CLASS-209-422	c 71	N85-30765 *	US-PATENT-CLASS-214-90R	c 03	N72-25021 *	US-PATENT-CLASS-219-497	c 77	N75-20140 *
US-PATENT-CLASS-209-638	c 71	N85-30765 *	US-PATENT-CLASS-215-247	c 33	N76-19339 *	US-PATENT-CLASS-219-499	c 14	N73-26430 *
US-PATENT-CLASS-21-207	c 17	N71-16393 *	US-PATENT-CLASS-219-10.41	c 33	N82-26571 *	US-PATENT-CLASS-219-501	c 77	N75-20140 *
US-PATENT-CLASS-210-DIG.23	c 52	N79-14749 *	US-PATENT-CLASS-219-10.43	c 31	N85-29083 *	US-PATENT-CLASS-219-505	c 14	N71-27058 *
US-PATENT-CLASS-210-DIG.27	c 27	N77-31308 *	US-PATENT-CLASS-219-10.49	c 33	N81-19389 *	US-PATENT-CLASS-219-505	c 77	N75-20140 *
US-PATENT-CLASS-210-103	c 05	N72-27102 *	US-PATENT-CLASS-219-10.49	c 11	N71-15925 *	US-PATENT-CLASS-219-50	c 14	N73-26430 *
US-PATENT-CLASS-210-104	c 05	N72-27102 *	US-PATENT-CLASS-219-10.49	c 31	N85-29083 *	US-PATENT-CLASS-219-510	c 35	N81-26431 *
US-PATENT-CLASS-210-108	c 34	N79-24285 *	US-PATENT-CLASS-219-10.53	c 33	N82-26571 *	US-PATENT-CLASS-219-522	c 11	N73-12265 *
US-PATENT-CLASS-210-110	c 05	N72-27102 *	US-PATENT-CLASS-219-10.53	c 31	N85-29083 *	US-PATENT-CLASS-219-522	c 52	N80-16725 *
US-PATENT-CLASS-210-137	c 05	N72-27102 *	US-PATENT-CLASS-219-10.67	c 33	N81-19389 *	US-PATENT-CLASS-219-522	c 27	N84-33589 *
US-PATENT-CLASS-210-142	c 34	N79-24285 *	US-PATENT-CLASS-219-10.77	c 31	N85-29083 *	US-PATENT-CLASS-219-530	c 33	N71-25353 *
US-PATENT-CLASS-210-151	c 45	N84-12654 *	US-PATENT-CLASS-219-101	c 15	N73-14468 *	US-PATENT-CLASS-219-539	c 33	N74-14935 *
US-PATENT-CLASS-210-186	c 37	N80-10494 *	US-PATENT-CLASS-219-107	c 37	N74-11300 *	US-PATENT-CLASS-219-541	c 27	N84-33589 *
US-PATENT-CLASS-210-188	c 12	N72-25292 *	US-PATENT-CLASS-219-107	c 15	N73-28515 *	US-PATENT-CLASS-219-543	c 27	N84-33589 *
US-PATENT-CLASS-210-192	c 54	N78-14784 *	US-PATENT-CLASS-219-109	c 15	N74-11300 *	US-PATENT-CLASS-219-545	c 33	N82-26571 *
US-PATENT-CLASS-210-212	c 03	N72-20033 *	US-PATENT-CLASS-219-117	c 15	N73-32358 *	US-PATENT-CLASS-219-62	c 15	N73-28515 *
US-PATENT-CLASS-210-222	c 35	N78-12390 *	US-PATENT-CLASS-219-118	c 37	N76-27568 *	US-PATENT-CLASS-219-72	c 15	N71-14932 *
US-PATENT-CLASS-210-22	c 52	N80-14687 *	US-PATENT-CLASS-219-118	c 37	N77-11397 *	US-PATENT-CLASS-219-72	c 37	N90-19602 *
US-PATENT-CLASS-210-23F	c 51	N79-10693 *	US-PATENT-CLASS-219-119	c 15	N73-14468 *	US-PATENT-CLASS-219-74	c 74	N87-25843 *
US-PATENT-CLASS-210-23H	c 27	N80-23452 *	US-PATENT-CLASS-219-121.54	c 37	N88-30131 *	US-PATENT-CLASS-219-74	c 37	N90-19602 *
US-PATENT-CLASS-210-234	c 34	N75-33342 *	US-PATENT-CLASS-219-121.56	c 37	N88-30131 *	US-PATENT-CLASS-219-75	c 37	N88-23980 *
US-PATENT-CLASS-210-24R	c 27	N81-14076 *	US-PATENT-CLASS-219-121.57	c 37	N88-30131 *	US-PATENT-CLASS-219-76.14	c 24	N85-30027 *
US-PATENT-CLASS-210-24	c 27	N77-30236 *	US-PATENT-CLASS-219-121LE	c 26	N86-32551 *	US-PATENT-CLASS-219-78	c 37	N74-11300 *
US-PATENT-CLASS-210-24	c 25	N81-19244 *	US-PATENT-CLASS-219-121LN	c 44	N82-26777 *	US-PATENT-CLASS-219-85CA	c 35	N80-20560 *
US-PATENT-CLASS-210-259	c 34	N75-33342 *	US-PATENT-CLASS-219-121LY	c 26	N86-32551 *	US-PATENT-CLASS-219-85CM	c 35	N80-20560 *
US-PATENT-CLASS-210-282	c 37	N87-17035 *	US-PATENT-CLASS-219-121P	c 15	N72-32487 *	US-PATENT-CLASS-219-85R	c 35	N80-20560 *
US-PATENT-CLASS-210-28	c 85	N79-17747 *	US-PATENT-CLASS-219-121	c 15	N69-21471 * #	US-PATENT-CLASS-219-85	c 15	N72-22491 *

US-PATENT-CLASS-219-85	c 15	N72-23497 *	US-PATENT-CLASS-228-1	c 37	N75-25185 *	US-PATENT-CLASS-23-281	c 44	N77-10636 *
US-PATENT-CLASS-219-91	c 15	N71-18613 *	US-PATENT-CLASS-228-2.5	c 37	N79-13364 *	US-PATENT-CLASS-23-281	c 44	N77-22607 *
US-PATENT-CLASS-219-91	c 15	N73-32358 *	US-PATENT-CLASS-228-2.5	c 37	N88-14359 *	US-PATENT-CLASS-23-284	c 35	N74-15127 *
US-PATENT-CLASS-219-92	c 37	N76-27568 *	US-PATENT-CLASS-228-205	c 37	N81-19455 *	US-PATENT-CLASS-23-288F	c 25	N74-12813 *
US-PATENT-CLASS-219-92	c 37	N77-11397 *	US-PATENT-CLASS-228-206	c 37	N76-18455 *	US-PATENT-CLASS-23-288J	c 25	N74-12813 *
US-PATENT-CLASS-22-200	c 15	N71-15966 *	US-PATENT-CLASS-228-208	c 37	N87-21334 *	US-PATENT-CLASS-23-288R	c 28	N80-10374 *
US-PATENT-CLASS-22-203	c 17	N70-38198 *	US-PATENT-CLASS-228-209	c 37	N87-21334 *	US-PATENT-CLASS-23-288	c 28	N72-18766 *
US-PATENT-CLASS-220-14	c 15	N69-39935 *	US-PATENT-CLASS-228-212	c 37	N80-23655 *	US-PATENT-CLASS-23-292	c 51	N77-27677 *
US-PATENT-CLASS-220-15	c 31	N71-15664 *	US-PATENT-CLASS-228-212	c 24	N84-11214 *	US-PATENT-CLASS-23-293R	c 28	N81-15119 *
US-PATENT-CLASS-220-15	c 34	N75-12222 *	US-PATENT-CLASS-228-214	c 37	N76-18455 *	US-PATENT-CLASS-23-295R	c 76	N85-29800 *
US-PATENT-CLASS-220-1	c 31	N71-17680 *	US-PATENT-CLASS-228-222	c 37	N80-23655 *	US-PATENT-CLASS-23-300	c 28	N80-23471 *
US-PATENT-CLASS-220-2.2	c 24	N79-25143 *	US-PATENT-CLASS-228-232	c 26	N77-28265 *	US-PATENT-CLASS-23-302A	c 28	N80-23471 *
US-PATENT-CLASS-220-266	c 37	N79-22474 *	US-PATENT-CLASS-228-238	c 37	N76-18455 *	US-PATENT-CLASS-23-302R	c 28	N80-23471 *
US-PATENT-CLASS-220-306	c 27	N84-27886 *	US-PATENT-CLASS-228-263.18	c 35	N83-35338 *	US-PATENT-CLASS-23-302T	c 28	N80-23471 *
US-PATENT-CLASS-220-335	c 45	N83-25217 *	US-PATENT-CLASS-228-263	c 26	N77-29260 *	US-PATENT-CLASS-23-313R	c 71	N85-22104 *
US-PATENT-CLASS-220-378	c 37	N82-24490 *	US-PATENT-CLASS-228-44.1R	c 37	N80-23655 *	US-PATENT-CLASS-23-55	c 06	N72-17093 *
US-PATENT-CLASS-220-423	c 37	N80-18393 *	US-PATENT-CLASS-228-5.1	c 44	N79-24431 *	US-PATENT-CLASS-23-88	c 06	N72-17093 *
US-PATENT-CLASS-220-429	c 44	N80-20808 *	US-PATENT-CLASS-228-50	c 15	N70-39924 *	US-PATENT-CLASS-23-927	c 51	N80-16714 *
US-PATENT-CLASS-220-445	c 37	N80-18393 *	US-PATENT-CLASS-228-50	c 15	N70-40204 *	US-PATENT-CLASS-23-97	c 06	N72-17093 *
US-PATENT-CLASS-220-46	c 15	N71-27068 *	US-PATENT-CLASS-228-53	c 15	N71-27214 *	US-PATENT-CLASS-230-162	c 33	N77-17610 *
US-PATENT-CLASS-220-5A	c 31	N89-29578 *	US-PATENT-CLASS-228-57	c 15	N72-22491 *	US-PATENT-CLASS-230-221	c 11	N72-22245 *
US-PATENT-CLASS-220-5R	c 15	N72-22486 *	US-PATENT-CLASS-228-6	c 44	N79-24431 *	US-PATENT-CLASS-230-54	c 11	N72-22245 *
US-PATENT-CLASS-220-55	c 15	N69-27502 *	US-PATENT-CLASS-228-7	c 15	N71-15607 *	US-PATENT-CLASS-233-DIG.1	c 34	N75-26282 *
US-PATENT-CLASS-220-63	c 11	N70-38182 *	US-PATENT-CLASS-228-8	c 15	N71-23050 *	US-PATENT-CLASS-233-11	c 15	N71-16079 *
US-PATENT-CLASS-220-67	c 15	N71-10577 *	US-PATENT-CLASS-228-8	c 37	N79-10421 *	US-PATENT-CLASS-233-20RP	c 34	N75-26282 *
US-PATENT-CLASS-220-82R	c 31	N81-19343 *	US-PATENT-CLASS-228-9	c 15	N71-20393 *	US-PATENT-CLASS-233-25	c 34	N75-26282 *
US-PATENT-CLASS-220-89A	c 31	N81-19343 *	US-PATENT-CLASS-229-DIG.11	c 32	N73-13921 *	US-PATENT-CLASS-233-46	c 34	N75-26282 *
US-PATENT-CLASS-220-89	c 11	N71-15960 *	US-PATENT-CLASS-23-109	c 04	N72-33072 *	US-PATENT-CLASS-233-6	c 34	N75-26282 *
US-PATENT-CLASS-220-89	c 11	N71-17600 *	US-PATENT-CLASS-23-201	c 06	N72-17095 *	US-PATENT-CLASS-235.150.27	c 04	N74-13420 *
US-PATENT-CLASS-220-901	c 37	N80-18393 *	US-PATENT-CLASS-23-208	c 15	N69-21922 *	US-PATENT-CLASS-235-10.2	c 08	N73-25206 *
US-PATENT-CLASS-220-901	c 31	N89-29578 *	US-PATENT-CLASS-23-208	c 26	N70-36805 *	US-PATENT-CLASS-235-150.1	c 08	N71-29033 *
US-PATENT-CLASS-220-9	c 23	N71-22881 *	US-PATENT-CLASS-23-209.1	c 15	N72-20446 *	US-PATENT-CLASS-235-150.1	c 08	N72-31226 *
US-PATENT-CLASS-220-9	c 18	N71-23658 *	US-PATENT-CLASS-23-230B	c 25	N75-14844 *	US-PATENT-CLASS-235-150.1	c 32	N77-10392 *
US-PATENT-CLASS-220-9	c 15	N71-23816 *	US-PATENT-CLASS-23-230B	c 23	N77-17161 *	US-PATENT-CLASS-235-150.22	c 02	N71-13421 *
US-PATENT-CLASS-220-9	c 33	N71-25351 *	US-PATENT-CLASS-23-230B	c 25	N79-14169 *	US-PATENT-CLASS-235-150.22	c 04	N74-13420 *
US-PATENT-CLASS-221-265	c 51	N74-15778 *	US-PATENT-CLASS-23-230B	c 51	N80-27067 *	US-PATENT-CLASS-235-150.25	c 21	N71-21688 *
US-PATENT-CLASS-222-131	c 31	N79-21225 *	US-PATENT-CLASS-23-230L	c 35	N74-32879 *	US-PATENT-CLASS-235-150.25	c 35	N77-20399 *
US-PATENT-CLASS-222-135	c 15	N72-21465 *	US-PATENT-CLASS-23-230M	c 25	N76-18245 *	US-PATENT-CLASS-235-150.26	c 04	N74-13420 *
US-PATENT-CLASS-222-137	c 14	N71-27005 *	US-PATENT-CLASS-23-230M	c 23	N77-17161 *	US-PATENT-CLASS-235-150.27	c 08	N71-29033 *
US-PATENT-CLASS-222-145	c 37	N76-19436 *	US-PATENT-CLASS-23-230PC	c 25	N78-15210 *	US-PATENT-CLASS-235-150.2	c 08	N71-29033 *
US-PATENT-CLASS-222-193	c 37	N74-13178 *	US-PATENT-CLASS-23-230PC	c 25	N82-12166 *	US-PATENT-CLASS-235-150.2	c 35	N77-20399 *
US-PATENT-CLASS-222-309	c 15	N72-21465 *	US-PATENT-CLASS-23-230R	c 06	N72-17094 *	US-PATENT-CLASS-235-150.3	c 33	N74-10223 *
US-PATENT-CLASS-222-309	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 17	N73-12547 *	US-PATENT-CLASS-235-150.52	c 08	N72-22165 *
US-PATENT-CLASS-222-309	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 17	N73-27446 *	US-PATENT-CLASS-235-150.53	c 08	N72-22165 *
US-PATENT-CLASS-222-324	c 54	N74-17853 *	US-PATENT-CLASS-23-230R	c 25	N76-18245 *	US-PATENT-CLASS-235-150.53	c 07	N73-13149 *
US-PATENT-CLASS-222-340	c 54	N74-12779 *	US-PATENT-CLASS-23-230R	c 45	N76-31714 *	US-PATENT-CLASS-235-150.53	c 33	N75-26243 *
US-PATENT-CLASS-222-340	c 35	N85-21595 *	US-PATENT-CLASS-23-230R	c 23	N77-17161 *	US-PATENT-CLASS-235-151.13	c 25	N76-18245 *
US-PATENT-CLASS-222-387	c 54	N74-12779 *	US-PATENT-CLASS-23-230	c 06	N71-23527 *	US-PATENT-CLASS-235-151.1	c 08	N71-29033 *
US-PATENT-CLASS-222-389	c 15	N70-38996 *	US-PATENT-CLASS-23-230	c 06	N72-17095 *	US-PATENT-CLASS-235-151.1	c 08	N72-31226 *
US-PATENT-CLASS-222-414	c 14	N73-27378 *	US-PATENT-CLASS-23-231	c 23	N77-17161 *	US-PATENT-CLASS-235-151.27	c 08	N73-25206 *
US-PATENT-CLASS-222-43	c 35	N85-21595 *	US-PATENT-CLASS-23-232C	c 06	N72-17094 *	US-PATENT-CLASS-235-151.31	c 10	N73-25240 *
US-PATENT-CLASS-222-45	c 14	N70-40233 *	US-PATENT-CLASS-23-232C	c 25	N76-18245 *	US-PATENT-CLASS-235-151.34	c 35	N76-14431 *
US-PATENT-CLASS-222-48	c 35	N85-21595 *	US-PATENT-CLASS-23-232C	c 23	N77-17161 *	US-PATENT-CLASS-235-151.3	c 52	N74-22771 *
US-PATENT-CLASS-222-49	c 14	N71-27005 *	US-PATENT-CLASS-23-232E	c 06	N73-16106 *	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *
US-PATENT-CLASS-222-514	c 54	N74-12779 *	US-PATENT-CLASS-23-232E	c 45	N76-31714 *	US-PATENT-CLASS-235-151.3	c 38	N78-17395 *
US-PATENT-CLASS-222-61	c 27	N71-29155 *	US-PATENT-CLASS-23-232E	c 25	N78-15210 *	US-PATENT-CLASS-235-151	c 37	N74-21056 *
US-PATENT-CLASS-222-61	c 37	N77-28487 *	US-PATENT-CLASS-23-232E	c 25	N82-12166 *	US-PATENT-CLASS-235-152IE	c 08	N73-32081 *
US-PATENT-CLASS-222-71	c 15	N72-21465 *	US-PATENT-CLASS-23-232R	c 06	N76-16106 *	US-PATENT-CLASS-235-152	c 07	N71-24741 *
US-PATENT-CLASS-222-95	c 37	N77-28487 *	US-PATENT-CLASS-23-232R	c 45	N76-31714 *	US-PATENT-CLASS-235-152	c 08	N72-20176 *
US-PATENT-CLASS-224-25A	c 05	N72-23085 *	US-PATENT-CLASS-23-232R	c 23	N77-17161 *	US-PATENT-CLASS-235-152	c 08	N72-22167 *
US-PATENT-CLASS-224-25	c 05	N71-12351 *	US-PATENT-CLASS-23-232R	c 25	N78-15210 *	US-PATENT-CLASS-235-152	c 08	N73-12175 *
US-PATENT-CLASS-224-444	c 54	N74-17853 *	US-PATENT-CLASS-23-252R	c 25	N74-12813 *	US-PATENT-CLASS-235-152	c 09	N73-13209 *
US-PATENT-CLASS-225-103	c 37	N82-32730 *	US-PATENT-CLASS-23-252R	c 25	N79-10162 *	US-PATENT-CLASS-235-152	c 08	N73-26175 *
US-PATENT-CLASS-225-1	c 15	N71-17628 *	US-PATENT-CLASS-23-252R	c 25	N79-28253 *	US-PATENT-CLASS-235-152	c 60	N77-14751 *
US-PATENT-CLASS-225-2	c 26	N71-14354 *	US-PATENT-CLASS-23-253A	c 51	N77-27677 *	US-PATENT-CLASS-235-153AE	c 60	N76-21914 *
US-PATENT-CLASS-226-190	c 08	N71-19420 *	US-PATENT-CLASS-23-253A	c 54	N78-14784 *	US-PATENT-CLASS-235-153AK	c 62	N74-14920 *
US-PATENT-CLASS-226-58	c 14	N71-28935 *	US-PATENT-CLASS-23-253PC	c 06	N72-17094 *	US-PATENT-CLASS-235-153	c 08	N71-24633 *
US-PATENT-CLASS-227-27	c 37	N86-25790 *	US-PATENT-CLASS-23-253PC	c 37	N74-18123 *	US-PATENT-CLASS-235-153	c 08	N72-22166 *
US-PATENT-CLASS-227-28	c 37	N86-25790 *	US-PATENT-CLASS-23-253R	c 15	N72-21465 *	US-PATENT-CLASS-235-154	c 08	N70-34778 *
US-PATENT-CLASS-228-103	c 35	N83-35338 *	US-PATENT-CLASS-23-253R	c 25	N76-18245 *	US-PATENT-CLASS-235-154	c 10	N71-23662 *
US-PATENT-CLASS-228-107	c 37	N79-13364 *	US-PATENT-CLASS-23-253	c 25	N71-16355 *	US-PATENT-CLASS-235-154	c 08	N72-18184 *
US-PATENT-CLASS-228-107	c 37	N88-14359 *	US-PATENT-CLASS-23-253	c 06	N71-26754 *	US-PATENT-CLASS-235-154	c 08	N72-25206 *
US-PATENT-CLASS-228-109	c 37	N88-14359 *	US-PATENT-CLASS-23-253	c 06	N72-17095 *	US-PATENT-CLASS-235-155	c 08	N71-24890 *
US-PATENT-CLASS-228-116	c 37	N81-19455 *	US-PATENT-CLASS-23-254EF	c 35	N76-18403 *	US-PATENT-CLASS-235-155	c 08	N72-21197 *
US-PATENT-CLASS-228-118	c 24	N81-17170 *	US-PATENT-CLASS-23-254E	c 06	N73-16106 *	US-PATENT-CLASS-235-156	c 08	N73-12176 *
US-PATENT-CLASS-228-118	c 24	N81-26179 *	US-PATENT-CLASS-23-254E	c 33	N75-26245 *	US-PATENT-CLASS-235-156	c 60	N75-13539 *
US-PATENT-CLASS-228-119	c 37	N86-32736 *	US-PATENT-CLASS-23-254E	c 35	N75-29380 *	US-PATENT-CLASS-235-156	c 32	N76-21366 *
US-PATENT-CLASS-228-124	c 26	N77-29260 *	US-PATENT-CLASS-23-254R	c 06	N76-21742 *	US-PATENT-CLASS-235-156	c 32	N77-10392 *
US-PATENT-CLASS-228-124	c 37	N87-21334 *	US-PATENT-CLASS-23-254R	c 25	N76-18245 *	US-PATENT-CLASS-235-156	c 38	N78-17395 *
US-PATENT-CLASS-228-13	c 18	N79-11108 *	US-PATENT-CLASS-23-254R	c 23	N77-17161 *	US-PATENT-CLASS-235-156	c 38	N78-17396 *
US-PATENT-CLASS-228-15.1	c 18	N79-11108 *	US-PATENT-CLASS-23-254R	c 14	N71-20442 *	US-PATENT-CLASS-235-158	c 08	N71-19437 *
US-PATENT-CLASS-228-157	c 24	N82-24296 *	US-PATENT-CLASS-23-254R	c 35	N75-29380 *	US-PATENT-CLASS-235-164	c 08	N71-33110 *
US-PATENT-CLASS-228-165	c 35	N84-11214 *	US-PATENT-CLASS-23-255E	c 25	N76-18245 *	US-PATENT-CLASS-235-164	c 08	N73-26175 *
US-PATENT-CLASS-228-170	c 24	N81-17170 *	US-PATENT-CLASS-23-255R	c 15	N71-27372 *	US-PATENT-CLASS-235-164	c 60	N74-20836 *
US-PATENT-CLASS-228-173	c 18	N79-11108 *	US-PATENT-CLASS-23-259	c 15	N72-21465 *	US-PATENT-CLASS-235-175	c 08	N71-18602 *
US-PATENT-CLASS-228-174	c 24	N81-17170 *	US-PATENT-CLASS-23-259	c 37	N74-18123 *	US-PATENT-CLASS-235-175	c 08	N71-33110 *
US-PATENT-CLASS-228-181	c 24	N84-11214 *	US-PATENT-CLASS-23-259	c 51	N77-27677 *	US-PATENT-CLASS-235-176	c 08	N70-34787 *
US-PATENT-CLASS-228-190	c 24	N75-28135 *	US-PATENT-CLASS-23-277C	c 25	N74-33378 *	US-PATENT-CLASS-235-181	c 07	N71-21476 *
US-PATENT-CLASS-228-190	c 26	N77-28265 *	US-PATENT-CLASS-23-277R	c 44	N77-22607 *	US-PATENT-CLASS-235-181	c 07	N73-13149 *
US-PATENT-CLASS-228-190	c 24	N81-17170 *	US-PATENT-CLASS-23-277	c 26	N70-40015 *	US-PATENT-CLASS-235-181	c 35	N75-21582 *
US-PATENT-CLASS-228-190	c 24	N81-26179 *	US-PATENT-CLASS-23-281	c 28	N72-18766 *	US-PATENT-CLASS-235-181	c 33	N75-26243 *
US-PATENT-CLASS-228-193	c 24	N75-28135 *	US-PATENT-CLASS-23-281	c 25	N74-12813 *	US-PATENT-CLASS-235-181	c 43	N77-10584 *
US-PATENT-CLASS-228-193	c 37	N76-18455 *	US-PATENT-CLASS-23-281	c 44	N76-18642 *	US-PATENT-CLASS-235-181	c 38	N78-17395 *
US-PATENT-CLASS-228-193	c 35	N83-35338 *	US-PATENT-CLASS-23-281	c 44	N76-29700 *	US-PATENT-CLASS-235-183	c 08	N72-22165 *
US-PATENT-CLASS-228-194	c 26	N77-28265 *						

US-PATENT-CLASS-235-184	c 74	N76-18913 *	US-PATENT-CLASS-239-265.33	c 07	N78-27121 *	US-PATENT-CLASS-244-1SS	c 33	N73-32818 *
US-PATENT-CLASS-235-186	c 10	N73-26230 *	US-PATENT-CLASS-239-265.33	c 07	N80-32392 *	US-PATENT-CLASS-244-1SS	c 18	N74-22136 *
US-PATENT-CLASS-235-194	c 09	N71-19480 *	US-PATENT-CLASS-239-265.39	c 07	N79-14097 *	US-PATENT-CLASS-244-1SS	c 18	N74-23977 *
US-PATENT-CLASS-235-194	c 08	N72-22165 *	US-PATENT-CLASS-239-265.43	c 28	N71-16224 *	US-PATENT-CLASS-244-1SS	c 73	N75-30876 *
US-PATENT-CLASS-235-194	c 10	N73-26230 *	US-PATENT-CLASS-239-265.43	c 28	N72-11708 *	US-PATENT-CLASS-244-100	c 15	N70-34850 *
US-PATENT-CLASS-235-197	c 08	N72-22165 *	US-PATENT-CLASS-239-288	c 37	N79-22474 *	US-PATENT-CLASS-244-100	c 31	N70-36654 *
US-PATENT-CLASS-235-197	c 09	N72-23173 *	US-PATENT-CLASS-239-288	c 37	N85-29283 *	US-PATENT-CLASS-244-100	c 31	N70-36845 *
US-PATENT-CLASS-235-197	c 10	N73-20253 *	US-PATENT-CLASS-239-302	c 37	N80-10494 *	US-PATENT-CLASS-244-100	c 02	N70-41589 *
US-PATENT-CLASS-235-197	c 10	N73-26230 *	US-PATENT-CLASS-239-322	c 37	N85-29283 *	US-PATENT-CLASS-244-103R	c 37	N81-24443 *
US-PATENT-CLASS-235-197	c 60	N75-13539 *	US-PATENT-CLASS-239-327	c 37	N85-29283 *	US-PATENT-CLASS-244-103	c 02	N70-36825 *
US-PATENT-CLASS-235-201	c 10	N71-25899 *	US-PATENT-CLASS-239-375	c 37	N85-29283 *	US-PATENT-CLASS-244-110B	c 07	N82-26293 *
US-PATENT-CLASS-235-61.6	c 01	N71-13411 *	US-PATENT-CLASS-239-402.5	c 07	N85-35195 *	US-PATENT-CLASS-244-110C	c 37	N82-18601 *
US-PATENT-CLASS-235-61.6	c 15	N71-21179 *	US-PATENT-CLASS-239-403	c 20	N87-14420 *	US-PATENT-CLASS-244-113	c 02	N70-37939 *
US-PATENT-CLASS-235-61NV	c 08	N72-11172 *	US-PATENT-CLASS-239-416	c 15	N69-23185 *	US-PATENT-CLASS-244-113	c 31	N71-25434 *
US-PATENT-CLASS-235-61NV	c 35	N76-29552 *	US-PATENT-CLASS-239-416	c 15	N71-17654 *	US-PATENT-CLASS-244-113	c 02	N77-10001 *
US-PATENT-CLASS-235-70	c 04	N78-17031 *	US-PATENT-CLASS-239-418	c 28	N72-23809 *	US-PATENT-CLASS-244-113	c 37	N82-16408 *
US-PATENT-CLASS-235-78M	c 35	N76-29552 *	US-PATENT-CLASS-239-424	c 15	N72-25455 *	US-PATENT-CLASS-244-113	c 08	N85-35200 *
US-PATENT-CLASS-235-88M	c 35	N76-29552 *	US-PATENT-CLASS-239-425	c 20	N87-14420 *	US-PATENT-CLASS-244-114R	c 04	N82-16059 *
US-PATENT-CLASS-235-92CA	c 33	N74-10223 *	US-PATENT-CLASS-239-426	c 34	N84-12406 *	US-PATENT-CLASS-244-114	c 21	N72-22619 *
US-PATENT-CLASS-235-92CA	c 38	N77-17495 *	US-PATENT-CLASS-239-426	c 34	N87-21255 *	US-PATENT-CLASS-244-115	c 18	N83-29303 *
US-PATENT-CLASS-235-92CC	c 08	N72-20176 *	US-PATENT-CLASS-239-433	c 28	N72-23809 *	US-PATENT-CLASS-244-117-A	c 24	N88-18628 *
US-PATENT-CLASS-235-92CT	c 38	N77-17495 *	US-PATENT-CLASS-239-433	c 37	N87-24689 *	US-PATENT-CLASS-244-117A	c 33	N73-25952 *
US-PATENT-CLASS-235-92CV	c 08	N73-25206 *	US-PATENT-CLASS-239-434	c 34	N87-21255 *	US-PATENT-CLASS-244-117A	c 34	N76-17317 *
US-PATENT-CLASS-235-92DE	c 08	N72-20176 *	US-PATENT-CLASS-239-499	c 34	N82-13376 *	US-PATENT-CLASS-244-117A	c 37	N76-19437 *
US-PATENT-CLASS-235-92DM	c 08	N72-20176 *	US-PATENT-CLASS-239-543	c 28	N72-23809 *	US-PATENT-CLASS-244-117A	c 34	N77-18382 *
US-PATENT-CLASS-235-92DM	c 33	N74-10223 *	US-PATENT-CLASS-239-545	c 34	N87-21255 *	US-PATENT-CLASS-244-117A	c 05	N81-26114 *
US-PATENT-CLASS-235-92DM	c 33	N75-19519 *	US-PATENT-CLASS-239-562	c 43	N81-26509 *	US-PATENT-CLASS-244-117A	c 27	N84-27886 *
US-PATENT-CLASS-235-92DN	c 08	N73-25206 *	US-PATENT-CLASS-239-568	c 37	N84-16561 *	US-PATENT-CLASS-244-117	c 31	N70-33242 *
US-PATENT-CLASS-235-92DN	c 38	N77-17495 *	US-PATENT-CLASS-239-589	c 34	N82-13376 *	US-PATENT-CLASS-244-117	c 33	N72-17947 *
US-PATENT-CLASS-235-92EA	c 08	N73-25206 *	US-PATENT-CLASS-239-590	c 37	N85-29283 *	US-PATENT-CLASS-244-118.1	c 08	N82-32373 *
US-PATENT-CLASS-235-92EV	c 08	N73-25206 *	US-PATENT-CLASS-239-591	c 43	N81-26509 *	US-PATENT-CLASS-244-118.1	c 18	N85-29991 *
US-PATENT-CLASS-235-92FQ	c 08	N73-20217 *	US-PATENT-CLASS-239-596	c 37	N87-24689 *	US-PATENT-CLASS-244-118.1	c 37	N85-34401 *
US-PATENT-CLASS-235-92LG	c 08	N72-20176 *	US-PATENT-CLASS-239-600	c 37	N87-24689 *	US-PATENT-CLASS-244-118.1	c 05	N87-14314 *
US-PATENT-CLASS-235-92LG	c 33	N75-19519 *	US-PATENT-CLASS-239-601	c 34	N82-13376 *	US-PATENT-CLASS-244-119	c 02	N81-14968 *
US-PATENT-CLASS-235-92MT	c 08	N72-31226 *	US-PATENT-CLASS-239-690	c 28	N82-18401 *	US-PATENT-CLASS-244-119	c 24	N82-24296 *
US-PATENT-CLASS-235-92MT	c 32	N73-26910 *	US-PATENT-CLASS-24-126	c 15	N71-22994 *	US-PATENT-CLASS-244-119	c 24	N82-26384 *
US-PATENT-CLASS-235-92PC	c 35	N82-11431 *	US-PATENT-CLASS-24-134R	c 15	N73-25512 *	US-PATENT-CLASS-244-119	c 24	N84-11214 *
US-PATENT-CLASS-235-92PE	c 37	N74-21056 *	US-PATENT-CLASS-24-205.17	c 15	N71-25975 *	US-PATENT-CLASS-244-119	c 05	N88-23765 *
US-PATENT-CLASS-235-92R	c 08	N72-20176 *	US-PATENT-CLASS-24-211N	c 15	N72-11385 *	US-PATENT-CLASS-244-12.3	c 05	N88-28914 *
US-PATENT-CLASS-235-92R	c 08	N73-20217 *	US-PATENT-CLASS-24-211	c 15	N71-17653 *	US-PATENT-CLASS-244-12.4	c 05	N88-28914 *
US-PATENT-CLASS-235-92R	c 08	N73-25206 *	US-PATENT-CLASS-24-214	c 31	N83-31895 *	US-PATENT-CLASS-244-12.5	c 08	N81-19130 *
US-PATENT-CLASS-235-92R	c 33	N75-19519 *	US-PATENT-CLASS-24-263	c 15	N71-21076 *	US-PATENT-CLASS-244-120	c 05	N88-23765 *
US-PATENT-CLASS-235-92R	c 38	N77-17495 *	US-PATENT-CLASS-24-263	c 15	N71-26162 *	US-PATENT-CLASS-244-121	c 27	N79-12221 *
US-PATENT-CLASS-235-92SH	c 37	N74-21056 *	US-PATENT-CLASS-24-304	c 27	N85-20125 *	US-PATENT-CLASS-244-121	c 24	N79-25142 *
US-PATENT-CLASS-235-92T	c 03	N72-25020 *	US-PATENT-CLASS-24-447	c 27	N85-20125 *	US-PATENT-CLASS-244-121	c 15	N79-26100 *
US-PATENT-CLASS-235-92T	c 08	N73-20217 *	US-PATENT-CLASS-24-450	c 27	N85-20125 *	US-PATENT-CLASS-244-121	c 27	N82-24339 *
US-PATENT-CLASS-235-92T	c 33	N75-19519 *	US-PATENT-CLASS-24-560	c 52	N84-28388 *	US-PATENT-CLASS-244-121	c 27	N82-29456 *
US-PATENT-CLASS-235-92VA	c 33	N75-19519 *	US-PATENT-CLASS-24-635	c 37	N90-17154 *	US-PATENT-CLASS-244-121	c 37	N87-17036 *
US-PATENT-CLASS-235-92	c 08	N71-22897 *	US-PATENT-CLASS-24-688	c 54	N89-29953 *	US-PATENT-CLASS-244-122	c 05	N71-20718 *
US-PATENT-CLASS-235-92	c 08	N71-24891 *	US-PATENT-CLASS-24-693	c 27	N85-20125 *	US-PATENT-CLASS-244-122	c 24	N77-28225 *
US-PATENT-CLASS-235-92	c 10	N71-27137 *	US-PATENT-CLASS-240-1.2	c 11	N70-33329 *	US-PATENT-CLASS-244-123	c 24	N82-24296 *
US-PATENT-CLASS-235-92	c 14	N71-27215 *	US-PATENT-CLASS-240-11.2	c 09	N71-26787 *	US-PATENT-CLASS-244-123	c 24	N82-26384 *
US-PATENT-CLASS-236-1F	c 35	N81-26431 *	US-PATENT-CLASS-240-11.4	c 09	N71-26787 *	US-PATENT-CLASS-244-123	c 24	N84-11214 *
US-PATENT-CLASS-236-1F	c 31	N80-32583 *	US-PATENT-CLASS-240-41.35R	c 74	N77-21941 *	US-PATENT-CLASS-244-127	c 34	N74-23039 *
US-PATENT-CLASS-236-15-E	c 25	N88-29002 *	US-PATENT-CLASS-240-41B	c 36	N75-27364 *	US-PATENT-CLASS-244-129.5	c 18	N90-19278 *
US-PATENT-CLASS-236-1	c 33	N71-16357 *	US-PATENT-CLASS-240-41R	c 74	N77-21941 *	US-PATENT-CLASS-244-130	c 02	N77-30332 *
US-PATENT-CLASS-236-44C	c 31	N80-32583 *	US-PATENT-CLASS-240-46.13	c 74	N77-21941 *	US-PATENT-CLASS-244-130	c 02	N77-10001 *
US-PATENT-CLASS-236-49	c 31	N74-27902 *	US-PATENT-CLASS-240-47	c 34	N74-23066 *	US-PATENT-CLASS-244-130	c 02	N81-14968 *
US-PATENT-CLASS-236-49	c 31	N80-32583 *	US-PATENT-CLASS-240-51.11	c 09	N71-26787 *	US-PATENT-CLASS-244-130	c 37	N71-24443 *
US-PATENT-CLASS-236-68	c 15	N72-12409 *	US-PATENT-CLASS-241-95	c 37	N84-16561 *	US-PATENT-CLASS-244-130	c 02	N87-16793 *
US-PATENT-CLASS-237-1A	c 44	N76-14602 *	US-PATENT-CLASS-242-107	c 33	N86-20669 *	US-PATENT-CLASS-244-130	c 07	N87-16828 *
US-PATENT-CLASS-237-1A	c 44	N78-10554 *	US-PATENT-CLASS-242-128	c 15	N82-24272 *	US-PATENT-CLASS-244-130	c 02	N88-14071 *
US-PATENT-CLASS-237-1A	c 44	N78-15560 *	US-PATENT-CLASS-242-187	c 37	N77-14479 *	US-PATENT-CLASS-244-130	c 05	N88-23765 *
US-PATENT-CLASS-237-1A	c 44	N78-17460 *	US-PATENT-CLASS-242-192	c 14	N71-23698 *	US-PATENT-CLASS-244-132	c 24	N82-26384 *
US-PATENT-CLASS-237-1A	c 44	N78-31525 *	US-PATENT-CLASS-242-193	c 37	N77-14479 *	US-PATENT-CLASS-244-132	c 24	N82-32417 *
US-PATENT-CLASS-237-1A	c 44	N79-24433 *	US-PATENT-CLASS-242-204	c 37	N77-14479 *	US-PATENT-CLASS-244-133	c 31	N90-19427 *
US-PATENT-CLASS-237-60	c 34	N76-17317 *	US-PATENT-CLASS-242-210	c 37	N77-14479 *	US-PATENT-CLASS-244-134-D	c 33	N86-20671 *
US-PATENT-CLASS-238-134	c 85	N74-34672 *	US-PATENT-CLASS-242-54-R	c 33	N86-20669 *	US-PATENT-CLASS-244-134-F	c 35	N88-29149 *
US-PATENT-CLASS-238-1	c 05	N71-28619 *	US-PATENT-CLASS-242-54	c 15	N72-18477 *	US-PATENT-CLASS-244-135R	c 34	N76-17317 *
US-PATENT-CLASS-239-DIG.23	c 37	N85-29283 *	US-PATENT-CLASS-242-55.19	c 14	N70-41647 *	US-PATENT-CLASS-244-135R	c 20	N80-10278 *
US-PATENT-CLASS-239-102	c 37	N80-10494 *	US-PATENT-CLASS-242-57	c 07	N71-10609 *	US-PATENT-CLASS-244-135	c 31	N70-42015 *
US-PATENT-CLASS-239-127.1	c 28	N71-23968 *	US-PATENT-CLASS-242-57	c 37	N77-14479 *	US-PATENT-CLASS-244-135	c 15	N73-12486 *
US-PATENT-CLASS-239-127.1	c 28	N73-32606 *	US-PATENT-CLASS-244.12.2	c 05	N82-26277 *	US-PATENT-CLASS-244-135	c 14	N73-27378 *
US-PATENT-CLASS-239-127.1	c 34	N79-13288 *	US-PATENT-CLASS-244-1SS	c 03	N72-20031 *	US-PATENT-CLASS-244-137-A	c 05	N87-14314 *
US-PATENT-CLASS-239-127.1	c 34	N79-13289 *	US-PATENT-CLASS-244-1.55	c 03	N73-20040 *	US-PATENT-CLASS-244-137P	c 31	N73-26876 *
US-PATENT-CLASS-239-127.1	c 34	N80-24573 *	US-PATENT-CLASS-244-1-R	c 06	N87-22678 *	US-PATENT-CLASS-244-137P	c 37	N76-22540 *
US-PATENT-CLASS-239-127.1	c 44	N81-24519 *	US-PATENT-CLASS-244-1A	c 33	N77-10429 *	US-PATENT-CLASS-244-137P	c 01	N83-35992 *
US-PATENT-CLASS-239-127.3	c 20	N76-14191 *	US-PATENT-CLASS-244-1R	c 34	N79-31523 *	US-PATENT-CLASS-244-137R	c 08	N82-32373 *
US-PATENT-CLASS-239-127.3	c 07	N80-32392 *	US-PATENT-CLASS-244-1SA	c 21	N72-21624 *	US-PATENT-CLASS-244-138	c 01	N69-39981 *
US-PATENT-CLASS-239-132.5	c 20	N87-14420 *	US-PATENT-CLASS-244-1SA	c 21	N72-25595 *	US-PATENT-CLASS-244-138	c 02	N70-41630 *
US-PATENT-CLASS-239-14.1	c 09	N89-25242 *	US-PATENT-CLASS-244-1SA	c 03	N73-20039 *	US-PATENT-CLASS-244-138	c 31	N71-16085 *
US-PATENT-CLASS-239-17.1	c 37	N77-13418 *	US-PATENT-CLASS-244-1SA	c 15	N73-25513 *	US-PATENT-CLASS-244-138	c 31	N71-25434 *
US-PATENT-CLASS-239-2.1	c 09	N89-25242 *	US-PATENT-CLASS-244-1SA	c 21	N73-30640 *	US-PATENT-CLASS-244-138	c 31	N71-28851 *
US-PATENT-CLASS-239-265.11	c 18	N71-21068 *	US-PATENT-CLASS-244-1SA	c 19	N74-15089 *	US-PATENT-CLASS-244-138	c 31	N73-13898 *
US-PATENT-CLASS-239-265.11	c 07	N74-33218 *	US-PATENT-CLASS-244-1SB	c 35	N74-28097 *	US-PATENT-CLASS-244-139	c 31	N73-13898 *
US-PATENT-CLASS-239-265.11	c 07	N76-18117 *	US-PATENT-CLASS-244-1SC	c 15	N73-12486 *	US-PATENT-CLASS-244-139	c 02	N76-16014 *
US-PATENT-CLASS-239-265.15	c 37	N79-22474 *	US-PATENT-CLASS-244-1SC	c 31	N73-32750 *	US-PATENT-CLASS-244-139	c 05	N85-21147 *
US-PATENT-CLASS-239-265.17	c 07	N74-27490 *	US-PATENT-CLASS-244-1SD	c 34	N75-12222 *	US-PATENT-CLASS-244-139	c 08	N85-35200 *
US-PATENT-CLASS-239-265.17	c 07	N83-33884 *	US-PATENT-CLASS-244-1SD	c 31	N73-26876 *	US-PATENT-CLASS-244-139	c 01	N71-23497 *
US-PATENT-CLASS-239-265.17	c 71	N84-14873 *	US-PATENT-CLASS-244-1SD	c 37	N74-27903 *	US-PATENT-CLASS-244-13	c 02	N73-26005 *
US-PATENT-CLASS-239-265.17	c 20	N89-25279 *	US-PATENT-CLASS-244-1SS	c 15	N77-10112 *	US-PATENT-CLASS-244-13	c 05	N75-25914 *
US-PATENT-CLASS-239-265.19	c 28	N71-21493 *	US-PATENT-CLASS-244-1SS	c 11	N73-13257 *	US-PATENT-CLASS-244-13	c 05	N84-12154 *
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 US-PATENT-CLASS-250-201 c 74 N78-17866 *
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 US-PATENT-CLASS-250-203R c 89 N74-30886 *
 US-PATENT-CLASS-250-203R c 35 N77-20401 *
 US-PATENT-CLASS-250-203R c 74 N77-22951 *
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 US-PATENT-CLASS-250-203R c 44 N88-14492 *
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 US-PATENT-CLASS-250-203 c 14 N69-27485 * #
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US-PATENT-CLASS-250-345	c 45	N75-27585 *	US-PATENT-CLASS-250-429	c 25	N76-29379 *	US-PATENT-CLASS-250-83.3	c 14	N71-15599 *
US-PATENT-CLASS-250-347	c 35	N77-10493 *	US-PATENT-CLASS-250-429	c 25	N78-27226 *	US-PATENT-CLASS-250-83.3	c 14	N71-18699 *
US-PATENT-CLASS-250-347	c 47	N77-10753 *	US-PATENT-CLASS-250-43.5FC	c 14	N72-11365 *	US-PATENT-CLASS-250-83.3	c 14	N71-21088 *
US-PATENT-CLASS-250-347	c 74	N80-33210 *	US-PATENT-CLASS-250-43.5R	c 14	N71-27090 *	US-PATENT-CLASS-250-83.3	c 09	N71-22985 *
US-PATENT-CLASS-250-350	c 25	N81-25159 *	US-PATENT-CLASS-250-43.5R	c 14	N72-21408 *	US-PATENT-CLASS-250-83.3	c 14	N71-25901 *
US-PATENT-CLASS-250-350	c 74	N83-19597 *	US-PATENT-CLASS-250-43.5R	c 06	N72-25146 *	US-PATENT-CLASS-250-83.3	c 14	N71-26475 *
US-PATENT-CLASS-250-351	c 35	N75-30502 *	US-PATENT-CLASS-250-43.5R	c 06	N72-31141 *	US-PATENT-CLASS-250-83.3	c 14	N71-27323 *
US-PATENT-CLASS-250-351	c 35	N78-13400 *	US-PATENT-CLASS-250-43.5	c 27	N71-16348 *	US-PATENT-CLASS-250-83.3	c 14	N72-17328 *
US-PATENT-CLASS-250-351	c 74	N83-19597 *	US-PATENT-CLASS-250-43.5	c 15	N71-24896 *	US-PATENT-CLASS-250-83.3	c 35	N75-27329 *
US-PATENT-CLASS-250-351	c 35	N84-34705 *	US-PATENT-CLASS-250-43.5	c 14	N71-25901 *	US-PATENT-CLASS-250-83.6R	c 14	N71-27090 *
US-PATENT-CLASS-250-352	c 31	N79-17029 *	US-PATENT-CLASS-250-432R	c 25	N76-22323 *	US-PATENT-CLASS-250-83.6R	c 14	N72-20381 *
US-PATENT-CLASS-250-352	c 34	N79-20336 *	US-PATENT-CLASS-250-432	c 45	N75-27585 *	US-PATENT-CLASS-250-83.6R	c 25	N72-33696 *
US-PATENT-CLASS-250-352	c 35	N80-26635 *	US-PATENT-CLASS-250-444	c 52	N77-14737 *	US-PATENT-CLASS-250-83.6R	c 74	N81-19898 *
US-PATENT-CLASS-250-352	c 74	N80-33210 *	US-PATENT-CLASS-250-457	c 35	N80-26868 *	US-PATENT-CLASS-250-83.6	c 10	N70-41991 *
US-PATENT-CLASS-250-352	c 37	N87-23982 *	US-PATENT-CLASS-250-460	c 37	N75-26372 *	US-PATENT-CLASS-250-83CD	c 91	N74-13130 *
US-PATENT-CLASS-250-353	c 35	N76-29551 *	US-PATENT-CLASS-250-474.1	c 35	N83-21311 *	US-PATENT-CLASS-250-83R	c 14	N73-12445 *
US-PATENT-CLASS-250-353	c 35	N80-26635 *	US-PATENT-CLASS-250-475	c 35	N79-10389 *	US-PATENT-CLASS-250-83R	c 14	N73-20477 *
US-PATENT-CLASS-250-353	c 74	N80-33210 *	US-PATENT-CLASS-250-483.1	c 35	N84-33765 *	US-PATENT-CLASS-250-83	c 14	N69-27484 *
US-PATENT-CLASS-250-356.1	c 47	N84-28292 *	US-PATENT-CLASS-250-483	c 74	N79-20857 *	US-PATENT-CLASS-250-83	c 14	N69-39937 *
US-PATENT-CLASS-250-359	c 37	N75-26372 *	US-PATENT-CLASS-250-483	c 74	N81-24900 *	US-PATENT-CLASS-250-83	c 09	N71-18830 *
US-PATENT-CLASS-250-360	c 35	N74-15091 *	US-PATENT-CLASS-250-489	c 35	N76-15433 *	US-PATENT-CLASS-250-83	c 05	N71-19440 *
US-PATENT-CLASS-250-361	c 35	N74-15091 *	US-PATENT-CLASS-250-49.5B	c 24	N72-11595 *	US-PATENT-CLASS-250-83	c 14	N71-20430 *
US-PATENT-CLASS-250-363R	c 52	N77-14737 *	US-PATENT-CLASS-250-49.5TE	c 24	N72-11595 *	US-PATENT-CLASS-250-83	c 14	N71-23401 *
US-PATENT-CLASS-250-363R	c 74	N79-20857 *	US-PATENT-CLASS-250-49.5	c 14	N69-39982 *	US-PATENT-CLASS-250-83	c 09	N71-27232 *
US-PATENT-CLASS-250-363R	c 74	N84-11920 *	US-PATENT-CLASS-250-49.5	c 14	N71-28863 *	US-PATENT-CLASS-250-84	c 14	N71-24809 *
US-PATENT-CLASS-250-363S	c 74	N84-11920 *	US-PATENT-CLASS-250-49.5	c 14	N72-17328 *	US-PATENT-CLASS-251-118	c 15	N71-18580 *
US-PATENT-CLASS-250-363S	c 35	N85-30281 *	US-PATENT-CLASS-250-491	c 35	N80-26868 *	US-PATENT-CLASS-251-11	c 15	N70-35407 *
US-PATENT-CLASS-250-367	c 35	N84-33765 *	US-PATENT-CLASS-250-492A	c 33	N80-14332 *	US-PATENT-CLASS-251-120	c 37	N74-21065 *
US-PATENT-CLASS-250-368	c 74	N81-24900 *	US-PATENT-CLASS-250-492B	c 25	N78-27226 *	US-PATENT-CLASS-251-121	c 15	N71-18580 *
US-PATENT-CLASS-250-368	c 74	N84-11920 *	US-PATENT-CLASS-250-492R	c 25	N76-29379 *	US-PATENT-CLASS-251-122	c 15	N73-13462 *
US-PATENT-CLASS-250-369	c 35	N74-15091 *	US-PATENT-CLASS-250-492R	c 28	N78-24365 *	US-PATENT-CLASS-251-122	c 37	N74-21065 *
US-PATENT-CLASS-250-369	c 35	N82-32659 *	US-PATENT-CLASS-250-492	c 35	N74-15091 *	US-PATENT-CLASS-251-127	c 12	N71-18615 *
US-PATENT-CLASS-250-369	c 35	N85-30281 *	US-PATENT-CLASS-250-492	c 37	N75-26372 *	US-PATENT-CLASS-251-127	c 44	N84-14583 *
US-PATENT-CLASS-250-370	c 35	N74-18088 *	US-PATENT-CLASS-250-493	c 73	N75-30876 *	US-PATENT-CLASS-251-129.15	c 37	N87-25573 *
US-PATENT-CLASS-250-370	c 33	N75-31332 *	US-PATENT-CLASS-250-495	c 74	N75-12732 *	US-PATENT-CLASS-251-129	c 15	N72-20442 *
US-PATENT-CLASS-250-370	c 35	N82-31659 *	US-PATENT-CLASS-250-496	c 73	N75-30876 *	US-PATENT-CLASS-251-138	c 37	N80-23654 *
US-PATENT-CLASS-250-370	c 44	N82-32841 *	US-PATENT-CLASS-250-498	c 52	N77-14737 *	US-PATENT-CLASS-251-148	c 15	N71-23024 *
US-PATENT-CLASS-250-370	c 76	N87-13313 *	US-PATENT-CLASS-250-499	c 73	N74-26767 *	US-PATENT-CLASS-251-149.6	c 37	N76-14463 *
US-PATENT-CLASS-250-371	c 35	N74-18088 *	US-PATENT-CLASS-250-499	c 72	N76-15860 *	US-PATENT-CLASS-251-149.9	c 37	N79-11402 *
US-PATENT-CLASS-250-372	c 19	N74-29410 *	US-PATENT-CLASS-250-499	c 37	N78-13436 *	US-PATENT-CLASS-251-165	c 37	N87-21332 *
US-PATENT-CLASS-250-372	c 24	N76-24363 *	US-PATENT-CLASS-250-500	c 72	N76-15860 *	US-PATENT-CLASS-251-172	c 15	N71-21234 *
US-PATENT-CLASS-250-372	c 33	N76-27473 *	US-PATENT-CLASS-250-505	c 74	N74-27866 *	US-PATENT-CLASS-251-172	c 37	N79-33469 *
US-PATENT-CLASS-250-372	c 35	N83-21311 *	US-PATENT-CLASS-250-505	c 35	N75-19616 *	US-PATENT-CLASS-251-173	c 15	N70-33376 *
US-PATENT-CLASS-250-372	c 35	N84-33767 *	US-PATENT-CLASS-250-508	c 35	N75-19616 *	US-PATENT-CLASS-251-175	c 37	N87-25573 *
US-PATENT-CLASS-250-373	c 25	N74-26947 *	US-PATENT-CLASS-250-51.5	c 23	N73-13662 *	US-PATENT-CLASS-251-210	c 37	N74-21065 *
US-PATENT-CLASS-250-373	c 35	N75-30502 *	US-PATENT-CLASS-250-51.5	c 14	N73-28491 *	US-PATENT-CLASS-251-216	c 37	N81-17433 *
US-PATENT-CLASS-250-373	c 45	N76-17656 *	US-PATENT-CLASS-250-510	c 35	N75-19616 *	US-PATENT-CLASS-251-265	c 37	N85-20338 *
US-PATENT-CLASS-250-373	c 36	N87-28006 *	US-PATENT-CLASS-250-511	c 74	N74-27866 *	US-PATENT-CLASS-251-267	c 37	N85-20338 *
US-PATENT-CLASS-250-374	c 35	N74-26949 *	US-PATENT-CLASS-250-513	c 35	N80-26868 *	US-PATENT-CLASS-251-284	c 37	N85-20338 *
US-PATENT-CLASS-250-374	c 35	N85-34374 *	US-PATENT-CLASS-250-518	c 14	N73-30392 *	US-PATENT-CLASS-251-297	c 37	N85-20338 *
US-PATENT-CLASS-250-379	c 35	N85-34374 *	US-PATENT-CLASS-250-51	c 24	N72-11595 *	US-PATENT-CLASS-251-31	c 15	N71-19485 *
US-PATENT-CLASS-250-385	c 35	N74-26949 *	US-PATENT-CLASS-250-527	c 37	N76-18458 *	US-PATENT-CLASS-251-325	c 37	N85-29284 *
US-PATENT-CLASS-250-385	c 35	N75-27331 *	US-PATENT-CLASS-250-527	c 25	N77-32255 *	US-PATENT-CLASS-251-331	c 15	N72-31483 *
US-PATENT-CLASS-250-385	c 35	N76-15433 *	US-PATENT-CLASS-250-527	c 44	N77-32580 *	US-PATENT-CLASS-251-333	c 15	N70-34859 *
US-PATENT-CLASS-250-385	c 35	N76-16393 *	US-PATENT-CLASS-250-527	c 44	N79-11470 *	US-PATENT-CLASS-251-333	c 12	N71-18615 *
US-PATENT-CLASS-250-385	c 35	N82-24471 *	US-PATENT-CLASS-250-527	c 44	N82-16475 *	US-PATENT-CLASS-251-333	c 15	N72-20442 *
US-PATENT-CLASS-250-385	c 35	N84-33765 *	US-PATENT-CLASS-250-528	c 25	N78-25148 *	US-PATENT-CLASS-251-333	c 37	N75-25185 *
US-PATENT-CLASS-250-386	c 35	N82-24471 *	US-PATENT-CLASS-250-52	c 15	N71-15606 *	US-PATENT-CLASS-251-339	c 37	N81-17433 *
US-PATENT-CLASS-250-388	c 33	N83-24763 *	US-PATENT-CLASS-250-52	c 11	N71-23042 *	US-PATENT-CLASS-251-342	c 12	N71-18615 *
US-PATENT-CLASS-250-389	c 35	N82-24471 *	US-PATENT-CLASS-250-52	c 24	N72-11595 *	US-PATENT-CLASS-251-349	c 37	N85-29284 *
US-PATENT-CLASS-250-394	c 14	N73-30392 *	US-PATENT-CLASS-250-52	c 23	N73-13662 *	US-PATENT-CLASS-251-353	c 37	N85-29284 *
US-PATENT-CLASS-250-394	c 19	N74-29410 *	US-PATENT-CLASS-250-531	c 25	N78-25148 *	US-PATENT-CLASS-251-358	c 15	N71-17648 *
US-PATENT-CLASS-250-396-R	c 72	N87-21661 *	US-PATENT-CLASS-250-531	c 33	N79-15245 *	US-PATENT-CLASS-251-360	c 15	N72-25451 *
US-PATENT-CLASS-250-396	c 35	N77-14408 *	US-PATENT-CLASS-250-540	c 33	N79-15245 *	US-PATENT-CLASS-251-61.1	c 12	N71-18615 *
US-PATENT-CLASS-250-397	c 72	N89-29169 *	US-PATENT-CLASS-250-541	c 33	N79-15245 *	US-PATENT-CLASS-251-61	c 15	N71-10778 *
US-PATENT-CLASS-250-398	c 35	N78-10429 *	US-PATENT-CLASS-250-551	c 74	N79-34011 *	US-PATENT-CLASS-251-7	c 37	N79-28550 *
US-PATENT-CLASS-250-400	c 25	N76-29379 *	US-PATENT-CLASS-250-563	c 38	N78-17396 *	US-PATENT-CLASS-251-86	c 15	N72-31483 *
US-PATENT-CLASS-250-400	c 25	N78-27226 *	US-PATENT-CLASS-250-566	c 74	N75-25706 *	US-PATENT-CLASS-251-86	c 37	N80-23654 *
US-PATENT-CLASS-250-41.9D	c 14	N72-29464 *	US-PATENT-CLASS-250-571	c 36	N78-14380 *	US-PATENT-CLASS-252-12.2	c 24	N79-17916 *
US-PATENT-CLASS-250-41.9G	c 14	N73-12444 *	US-PATENT-CLASS-250-572	c 38	N78-17395 *	US-PATENT-CLASS-252-12	c 15	N71-23810 *
US-PATENT-CLASS-250-41.9S	c 14	N73-12444 *	US-PATENT-CLASS-250-572	c 38	N78-17396 *	US-PATENT-CLASS-252-12	c 24	N76-22309 *
US-PATENT-CLASS-250-41.9S	c 14	N71-28992 *	US-PATENT-CLASS-250-573	c 74	N76-20958 *	US-PATENT-CLASS-252-182.1	c 33	N84-14422 *
US-PATENT-CLASS-250-41.9	c 06	N71-13461 *	US-PATENT-CLASS-250-573	c 34	N83-31993 *	US-PATENT-CLASS-252-26	c 15	N71-21403 *
US-PATENT-CLASS-250-41.9	c 24	N71-16095 *	US-PATENT-CLASS-250-574	c 45	N76-21742 *	US-PATENT-CLASS-252-26	c 15	N71-24046 *
US-PATENT-CLASS-250-41.9	c 14	N71-23041 *	US-PATENT-CLASS-250-574	c 36	N77-25501 *	US-PATENT-CLASS-252-2	c 25	N83-36118 *
US-PATENT-CLASS-250-41.9	c 14	N71-28863 *	US-PATENT-CLASS-250-576	c 35	N74-27860 *	US-PATENT-CLASS-252-300	c 14	N72-22443 *
US-PATENT-CLASS-250-41.9	c 14	N72-17328 *	US-PATENT-CLASS-250-578	c 36	N75-19652 *	US-PATENT-CLASS-252-300	c 24	N76-24363 *
US-PATENT-CLASS-250-41.9	c 14	N73-32325 *	US-PATENT-CLASS-250-65F	c 15	N72-25452 *	US-PATENT-CLASS-252-301.1R	c 35	N79-10389 *
US-PATENT-CLASS-250-416TV	c 35	N78-15461 *	US-PATENT-CLASS-250-65R	c 14	N73-30389 *	US-PATENT-CLASS-252-301.16	c 35	N79-10389 *
US-PATENT-CLASS-250-423-P	c 72	N87-21661 *	US-PATENT-CLASS-250-71.5R	c 14	N72-29464 *	US-PATENT-CLASS-252-301.2	c 18	N71-27170 *
US-PATENT-CLASS-250-423-P	c 25	N88-24732 *	US-PATENT-CLASS-250-71.5	c 14	N72-17328 *	US-PATENT-CLASS-252-301.4	c 06	N73-30097 *
US-PATENT-CLASS-250-423-R	c 33	N87-21234 *	US-PATENT-CLASS-250-71R	c 06	N73-16106 *	US-PATENT-CLASS-252-305	c 06	N73-30097 *
US-PATENT-CLASS-250-423-R	c 72	N87-21660 *	US-PATENT-CLASS-250-71	c 14	N70-41676 *	US-PATENT-CLASS-252-359A	c 37	N77-13418 *
US-PATENT-CLASS-250-423-R	c 72	N88-24253 *	US-PATENT-CLASS-250-83.3H	c 14	N72-21408 *	US-PATENT-CLASS-252-361	c 71	N83-35781 *
US-PATENT-CLASS-250-423P	c 36	N77-26477 *	US-PATENT-CLASS-250-83.3H	c 14	N72-24477 *	US-PATENT-CLASS-252-364	c 28	N81-15119 *
US-PATENT-CLASS-250-423P	c 25	N78-25148 *	US-PATENT-CLASS-250-83.3H	c 14	N73-12445 *	US-PATENT-CLASS-252-373	c 44	N76-29704 *
US-PATENT-CLASS-250-423P	c 72	N80-14877 *	US-PATENT-CLASS-250-83.3H	c 14	N73-20475 *	US-PATENT-CLASS-252-373	c 44	N77-10636 *
US-PATENT-CLASS-250-423	c 35	N76-15433 *	US-PATENT-CLASS-250-83.3H	c 14	N73-25462 *	US-PATENT-CLASS-252-408	c 14	N73-14428 *
US-PATENT-CLASS-250-423	c 35	N76-16393 *	US-PATENT-CLASS-250-83.3R	c 14	N73-12445 *	US-PATENT-CLASS-252-422	c 45	N82-11634 *
US-PATENT-CLASS-250-423	c 35	N83-27184 *	US-PATENT-CLASS-250-83.3R	c 14	N73-20477 *	US-PATENT-CLASS-252-431N	c 06	N73-32029 *
US-PATENT-CLASS-250-424	c 72	N87-21660 *	US-PATENT-CLASS-250-83.3R	c 14	N73-32317 *	US-PATENT-CLASS-252-431R	c 06	N73-32029 *
US-PATENT-CLASS-250-426	c 33	N85-21491 *	US-PATENT-CLASS-250-83.3UV	c 10	N72-17173 *	US-PATENT-CLASS-252-472	c 25	N78-10225 *
US-PATENT-CLASS-250-427	c 72	N80-27163 *	US-PATENT-CLASS-250-83.3UV	c 14	N72-25409 *	US-PATENT-CLASS-252-514	c 05	N72-25120 *
US-PATENT-CLASS-250-427	c 72	N87-21660 *	US-PATENT-CLASS-250-83.3UV	c 06	N73-16106 *	US-PATENT-CLASS-252-514	c 44	N79-31752 *
US-PATENT-CLASS-250-427	c 72	N88-24253 *	US-PATENT-CLASS-250-83.3	c 21	N70-33181 *	US-PATENT-CLASS-252-514	c 25	N82-26396 *

US-PATENT-CLASS-252-518	c 24	N79-14156 *	US-PATENT-CLASS-260-245.9	c 27	N86-19455 *	US-PATENT-CLASS-260-606-5P	c 27	N78-32256 *
US-PATENT-CLASS-252-549	c 23	N75-14834 *	US-PATENT-CLASS-260-28.5	c 27	N78-33228 *	US-PATENT-CLASS-260-615	c 06	N71-27254 *
US-PATENT-CLASS-252-58	c 18	N70-39897 *	US-PATENT-CLASS-260-29.1R	c 24	N78-24290 *	US-PATENT-CLASS-260-615	c 06	N73-30101 *
US-PATENT-CLASS-252-5	c 25	N83-33977 *	US-PATENT-CLASS-260-29.6RB	c 25	N81-19242 *	US-PATENT-CLASS-260-63N	c 27	N78-31232 *
US-PATENT-CLASS-252-5	c 25	N83-36118 *	US-PATENT-CLASS-260-29.6S	c 27	N74-17283 *	US-PATENT-CLASS-260-63N	c 27	N78-32261 *
US-PATENT-CLASS-252-62.3E	c 44	N80-24741 *	US-PATENT-CLASS-260-29.6	c 26	N75-27125 *	US-PATENT-CLASS-260-63R	c 27	N78-32261 *
US-PATENT-CLASS-252-62.3E	c 44	N81-19558 *	US-PATENT-CLASS-260-2	c 06	N71-11243 *	US-PATENT-CLASS-260-65	c 06	N73-27980 *
US-PATENT-CLASS-252-62.3GA	c 25	N75-26043 *	US-PATENT-CLASS-260-2	c 06	N71-20717 *	US-PATENT-CLASS-260-65	c 27	N78-32261 *
US-PATENT-CLASS-252-62.3	c 26	N71-23292 *	US-PATENT-CLASS-260-2	c 06	N71-20905 *	US-PATENT-CLASS-260-65	c 23	N82-29358 *
US-PATENT-CLASS-252-62.3	c 76	N76-25049 *	US-PATENT-CLASS-260-2	c 06	N71-27363 *	US-PATENT-CLASS-260-67	c 27	N78-17214 *
US-PATENT-CLASS-252-62	c 27	N74-27037 *	US-PATENT-CLASS-260-2	c 06	N73-30102 *	US-PATENT-CLASS-260-67	c 27	N79-21191 *
US-PATENT-CLASS-252-70	c 23	N75-14834 *	US-PATENT-CLASS-260-2	c 27	N79-21190 *	US-PATENT-CLASS-260-72.5	c 06	N71-11236 *
US-PATENT-CLASS-252-8.1	c 18	N73-26572 *	US-PATENT-CLASS-260-30.2	c 06	N73-27980 *	US-PATENT-CLASS-260-72.5	c 06	N71-11239 *
US-PATENT-CLASS-252-8.1	c 27	N74-27037 *	US-PATENT-CLASS-260-30.4N	c 27	N78-17205 *	US-PATENT-CLASS-260-72.5	c 06	N71-24740 *
US-PATENT-CLASS-252-8.1	c 24	N78-14096 *	US-PATENT-CLASS-260-30.8DS	c 06	N73-27980 *	US-PATENT-CLASS-260-75N	c 27	N78-17213 *
US-PATENT-CLASS-253-317	c 44	N77-22606 *	US-PATENT-CLASS-260-307G	c 27	N79-22300 *	US-PATENT-CLASS-260-75N	c 27	N78-17213 *
US-PATENT-CLASS-253-39.15	c 15	N70-33226 *	US-PATENT-CLASS-260-32.2R	c 27	N78-17205 *	US-PATENT-CLASS-260-75NT	c 27	N78-17213 *
US-PATENT-CLASS-253-39.15	c 15	N70-33264 *	US-PATENT-CLASS-260-32.6NT	c 27	N78-17205 *	US-PATENT-CLASS-260-77.5AM	c 27	N78-17213 *
US-PATENT-CLASS-253-39.15	c 28	N70-33372 *	US-PATENT-CLASS-260-32.6N	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5AN	c 27	N78-17213 *
US-PATENT-CLASS-253-39.1	c 33	N71-29152 *	US-PATENT-CLASS-260-32.6N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AP	c 06	N72-27144 *
US-PATENT-CLASS-253-66	c 15	N70-36412 *	US-PATENT-CLASS-260-32.8N	c 23	N76-15268 *	US-PATENT-CLASS-260-77.5AP	c 06	N73-33076 *
US-PATENT-CLASS-253-66	c 28	N70-39895 *	US-PATENT-CLASS-260-326N	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 27	N77-31308 *
US-PATENT-CLASS-253-77	c 28	N71-28928 *	US-PATENT-CLASS-260-326S	c 27	N81-17260 *	US-PATENT-CLASS-260-77.5AP	c 27	N78-17213 *
US-PATENT-CLASS-253-77	c 28	N71-29154 *	US-PATENT-CLASS-260-33.4R	c 06	N73-27980 *	US-PATENT-CLASS-260-77.5AT	c 27	N78-17213 *
US-PATENT-CLASS-253	c 25	N79-28253 *	US-PATENT-CLASS-260-33.4R	c 27	N78-17205 *	US-PATENT-CLASS-260-77.55P	c 27	N78-17213 *
US-PATENT-CLASS-254-124	c 20	N76-22296 *	US-PATENT-CLASS-260-33.4R	c 27	N81-19296 *	US-PATENT-CLASS-260-77.5	c 06	N73-30099 *
US-PATENT-CLASS-254-131	c 60	N82-24839 *	US-PATENT-CLASS-260-33.6P	c 24	N78-27180 *	US-PATENT-CLASS-260-77.5	c 06	N73-30100 *
US-PATENT-CLASS-254-150	c 15	N71-24599 *	US-PATENT-CLASS-260-33.6PQ	c 24	N78-27180 *	US-PATENT-CLASS-260-77.5	c 06	N73-30103 *
US-PATENT-CLASS-254-156	c 15	N73-25512 *	US-PATENT-CLASS-260-33.6R	c 06	N73-27980 *	US-PATENT-CLASS-260-78.41	c 27	N78-31232 *
US-PATENT-CLASS-254-158	c 54	N77-21844 *	US-PATENT-CLASS-260-33.6UB	c 27	N81-15104 *	US-PATENT-CLASS-260-78TF	c 06	N73-27980 *
US-PATENT-CLASS-254-173	c 15	N71-24599 *	US-PATENT-CLASS-260-33.8EP	c 24	N78-27180 *	US-PATENT-CLASS-260-78TF	c 27	N74-23125 *
US-PATENT-CLASS-254-186	c 15	N71-24599 *	US-PATENT-CLASS-260-33.8F	c 27	N76-24405 *	US-PATENT-CLASS-260-78TF	c 23	N75-30256 *
US-PATENT-CLASS-254-190	c 15	N72-25453 *	US-PATENT-CLASS-260-33.8F	c 25	N81-14016 *	US-PATENT-CLASS-260-78TF	c 23	N76-15268 *
US-PATENT-CLASS-254-29A	c 15	N73-30457 *	US-PATENT-CLASS-260-33.8UA	c 24	N78-27180 *	US-PATENT-CLASS-260-78TF	c 27	N78-32261 *
US-PATENT-CLASS-254-93-H	c 35	N88-24927 *	US-PATENT-CLASS-260-340.9R	c 23	N82-16174 *	US-PATENT-CLASS-260-78UA	c 06	N73-27980 *
US-PATENT-CLASS-254-93-R	c 35	N88-24927 *	US-PATENT-CLASS-260-346.3	c 23	N75-30256 *	US-PATENT-CLASS-260-78	c 06	N71-11235 *
US-PATENT-CLASS-254-93R	c 35	N74-13129 *	US-PATENT-CLASS-260-346.3	c 23	N76-15268 *	US-PATENT-CLASS-260-78	c 06	N71-11238 *
US-PATENT-CLASS-254-93R	c 20	N76-22296 *	US-PATENT-CLASS-260-346.3	c 27	N80-32515 *	US-PATENT-CLASS-260-830S	c 15	N79-26100 *
US-PATENT-CLASS-255-13.1	c 37	N79-10420 *	US-PATENT-CLASS-260-348SC	c 06	N72-25148 *	US-PATENT-CLASS-260-85.5	c 06	N71-23500 *
US-PATENT-CLASS-256-1	c 37	N79-10420 *	US-PATENT-CLASS-260-37EP	c 24	N78-24290 *	US-PATENT-CLASS-260-858	c 27	N81-14076 *
US-PATENT-CLASS-256-308.2	c 27	N86-20561 *	US-PATENT-CLASS-260-37EP	c 24	N78-27180 *	US-PATENT-CLASS-260-877	c 06	N72-22107 *
US-PATENT-CLASS-259-DIG.18	c 35	N74-15093 *	US-PATENT-CLASS-260-37EP	c 15	N79-26100 *	US-PATENT-CLASS-260-879	c 27	N76-16228 *
US-PATENT-CLASS-259-4AC	c 37	N76-19436 *	US-PATENT-CLASS-260-37EP	c 27	N81-17260 *	US-PATENT-CLASS-260-886	c 27	N81-14076 *
US-PATENT-CLASS-259-4	c 15	N73-19458 *	US-PATENT-CLASS-260-37N	c 27	N79-28307 *	US-PATENT-CLASS-260-8900	c 27	N81-14076 *
US-PATENT-CLASS-259-60	c 35	N74-15093 *	US-PATENT-CLASS-260-37	c 18	N71-25881 *	US-PATENT-CLASS-260-895	c 27	N81-14076 *
US-PATENT-CLASS-259-71	c 15	N71-21177 *	US-PATENT-CLASS-260-37	c 27	N81-24258 *	US-PATENT-CLASS-260-898	c 27	N81-14076 *
US-PATENT-CLASS-259-72	c 37	N74-18123 *	US-PATENT-CLASS-260-386	c 25	N82-24312 *	US-PATENT-CLASS-260-900	c 27	N76-16228 *
US-PATENT-CLASS-259-98	c 35	N74-15126 *	US-PATENT-CLASS-260-386	c 23	N88-26404 *	US-PATENT-CLASS-260-901	c 27	N81-14076 *
US-PATENT-CLASS-259/4R	c 34	N77-24423 *	US-PATENT-CLASS-260-389	c 25	N82-24312 *	US-PATENT-CLASS-260-92.1	c 06	N72-25150 *
US-PATENT-CLASS-260.46.5E	c 27	N74-21156 *	US-PATENT-CLASS-260-389	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 06	N72-25152 *
US-PATENT-CLASS-260-DIG.15	c 27	N78-14164 *	US-PATENT-CLASS-260-395	c 23	N88-26404 *	US-PATENT-CLASS-260-92.1	c 27	N76-16228 *
US-PATENT-CLASS-260-DIG.24	c 27	N74-27037 *	US-PATENT-CLASS-260-396N	c 27	N74-27037 *	US-PATENT-CLASS-260-92.1	c 27	N76-24405 *
US-PATENT-CLASS-260-DIG.24	c 27	N76-24405 *	US-PATENT-CLASS-260-404.5	c 18	N71-15688 *	US-PATENT-CLASS-260-926	c 27	N80-10358 *
US-PATENT-CLASS-260-DIG.29	c 27	N80-24438 *	US-PATENT-CLASS-260-42.17	c 27	N78-17215 *	US-PATENT-CLASS-260-927-N	c 23	N86-19376 *
US-PATENT-CLASS-260-17.2	c 24	N80-26388 *	US-PATENT-CLASS-260-42.43	c 24	N78-27180 *	US-PATENT-CLASS-260-93.5A	c 06	N73-32029 *
US-PATENT-CLASS-260-17.2	c 24	N81-13999 *	US-PATENT-CLASS-260-429	c 06	N71-28808 *	US-PATENT-CLASS-260-93.5S	c 06	N73-32029 *
US-PATENT-CLASS-260-17.4UC	c 23	N81-29160 *	US-PATENT-CLASS-260-42	c 27	N79-28307 *	US-PATENT-CLASS-260-94.2M	c 06	N73-32029 *
US-PATENT-CLASS-260-17A	c 27	N81-14076 *	US-PATENT-CLASS-260-448.2D	c 06	N72-25151 *	US-PATENT-CLASS-260-94.2R	c 06	N73-32029 *
US-PATENT-CLASS-260-18S	c 06	N72-25151 *	US-PATENT-CLASS-260-448.2D	c 06	N73-32030 *	US-PATENT-CLASS-260-94.7R	c 06	N73-32029 *
US-PATENT-CLASS-260-2.1E	c 18	N72-22567 *	US-PATENT-CLASS-260-448.2N	c 37	N74-21058 *	US-PATENT-CLASS-260-94.8	c 27	N73-22710 *
US-PATENT-CLASS-260-2.1E	c 27	N81-14076 *	US-PATENT-CLASS-260-448.2	c 06	N71-23230 *	US-PATENT-CLASS-260-959	c 27	N78-32256 *
US-PATENT-CLASS-260-2.1E	c 25	N81-19244 *	US-PATENT-CLASS-260-45.7R	c 24	N78-27180 *	US-PATENT-CLASS-260-96D	c 28	N81-15119 *
US-PATENT-CLASS-260-2.1	c 25	N81-17187 *	US-PATENT-CLASS-260-45.7R	c 27	N82-16238 *	US-PATENT-CLASS-261-DIG.75	c 34	N77-24423 *
US-PATENT-CLASS-260-2.2R	c 25	N81-17187 *	US-PATENT-CLASS-260-45.75W	c 24	N78-27180 *	US-PATENT-CLASS-261-118	c 31	N80-18231 *
US-PATENT-CLASS-260-2.2R	c 25	N81-19244 *	US-PATENT-CLASS-260-45.7	c 27	N76-24405 *	US-PATENT-CLASS-261-123	c 34	N77-24423 *
US-PATENT-CLASS-260-2.5AK	c 27	N76-15310 *	US-PATENT-CLASS-260-45.85N	c 24	N78-27180 *	US-PATENT-CLASS-261-145	c 28	N72-2272 *
US-PATENT-CLASS-260-2.5AK	c 24	N78-24290 *	US-PATENT-CLASS-260-45.9R	c 24	N78-27180 *	US-PATENT-CLASS-261-28	c 07	N81-29129 *
US-PATENT-CLASS-260-2.5AM	c 27	N74-12812 *	US-PATENT-CLASS-260-46.5E	c 06	N72-25151 *	US-PATENT-CLASS-261-78A	c 35	N86-29174 *
US-PATENT-CLASS-260-2.5AM	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5G	c 06	N72-25151 *	US-PATENT-CLASS-261-79A	c 54	N81-24724 *
US-PATENT-CLASS-260-2.5AP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5P	c 06	N72-25151 *	US-PATENT-CLASS-263-48	c 15	N69-27483 *
US-PATENT-CLASS-260-2.5AY	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5R	c 06	N73-26100 *	US-PATENT-CLASS-264-DIG.36	c 18	N73-14584 *
US-PATENT-CLASS-260-2.5A	c 27	N77-31308 *	US-PATENT-CLASS-260-46.5	c 06	N71-11237 *	US-PATENT-CLASS-264-DIG.44	c 15	N72-16329 *
US-PATENT-CLASS-260-2.5BE	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5	c 06	N71-11240 *	US-PATENT-CLASS-264-DIG.64	c 27	N88-23894 *
US-PATENT-CLASS-260-2.5B	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5.5R	c 27	N81-24256 *	US-PATENT-CLASS-264-DIG.65	c 27	N85-20124 *
US-PATENT-CLASS-260-2.5EP	c 24	N78-24290 *	US-PATENT-CLASS-260-46.5.5R	c 27	N84-22744 *	US-PATENT-CLASS-264-DIG.59	c 27	N89-29539 *
US-PATENT-CLASS-260-2.5FP	c 06	N72-25147 *	US-PATENT-CLASS-260-46.5.5	c 27	N84-22744 *	US-PATENT-CLASS-264-102	c 15	N71-10672 *
US-PATENT-CLASS-260-2.5FP	c 27	N74-27037 *	US-PATENT-CLASS-260-47CP	c 06	N73-27980 *	US-PATENT-CLASS-264-102	c 15	N73-12489 *
US-PATENT-CLASS-260-2.5FP	c 24	N78-24290 *	US-PATENT-CLASS-260-47CP	c 23	N76-15268 *	US-PATENT-CLASS-264-102	c 31	N74-14133 *
US-PATENT-CLASS-260-2.5F	c 18	N73-13562 *	US-PATENT-CLASS-260-47CP	c 27	N78-31232 *	US-PATENT-CLASS-264-102	c 31	N74-18124 *
US-PATENT-CLASS-260-2.5L	c 27	N74-12814 *	US-PATENT-CLASS-260-47CP	c 27	N78-32261 *	US-PATENT-CLASS-264-102	c 37	N76-24575 *
US-PATENT-CLASS-260-2.5N	c 24	N78-15180 *	US-PATENT-CLASS-260-47UP	c 06	N73-32029 *	US-PATENT-CLASS-264-102	c 15	N79-26100 *
US-PATENT-CLASS-260-2.5N	c 27	N78-31232 *	US-PATENT-CLASS-260-47	c 06	N71-28620 *	US-PATENT-CLASS-264-104	c 05	N72-25120 *
US-PATENT-CLASS-260-2.5R	c 27	N74-27037 *	US-PATENT-CLASS-260-47	c 06	N71-28807 *	US-PATENT-CLASS-264-104	c 27	N81-24257 *
US-PATENT-CLASS-260-2.5R	c 24	N78-15180 *	US-PATENT-CLASS-260-485F	c 06	N73-30098 *	US-PATENT-CLASS-264-104	c 23	N81-29160 *
US-PATENT-CLASS-260-2.5	c 06	N71-11242 *	US-PATENT-CLASS-260-49	c 27	N78-32261 *	US-PATENT-CLASS-264-104	c 25	N83-13188 *
US-PATENT-CLASS-260-2.5	c 06	N71-24739 *	US-PATENT-CLASS-260-520	c 23	N75-30256 *	US-PATENT-CLASS-264-105	c 27	N81-24257 *
US-PATENT-CLASS-260-2.5	c 06	N71-25929 *	US-PATENT-CLASS-260-535H	c 06	N72-27144 *	US-PATENT-CLASS-264-111	c 17	N71-29137 *
US-PATENT-CLASS-260-2.5	c 18	N71-26155 *	US-PATENT-CLASS-260-53	c 27	N79-28307 *	US-PATENT-CLASS-264-112	c 27	N85-20124 *
US-PATENT-CLASS-260-2.5	c 06	N72-25150 *	US-PATENT-CLASS-260-544-D	c 27	N86-21675 *	US-PATENT-CLASS-264-114	c 31	N90-19425 *
US-PATENT-CLASS-260-2P	c 27	N78-32256 *	US-PATENT-CLASS-260-544-P	c 27	N87-14515 *	US-PATENT-CLASS-264-118	c 24	N80-26388 *
US-PATENT-CLASS-260-2R	c 37	N74-18126 *	US-PATENT-CLASS-260-544F	c 06	N72-20121 *	US-PATENT-CLASS-264-118	c 24	N84-16262 *
US-PATENT-CLASS-260-2R	c 27	N74-27037 *	US-PATENT-CLASS-260-544P	c 27	N86-27450 *	US-PATENT-CLASS-264-119	c 24	N80-26388 *
US-PATENT-CLASS-260-2R	c 27	N78-15276 *	US-PATENT-CLASS-260-551P	c 27	N78-32256 *	US-PATENT-CLASS-264-120	c 27	N85-20124 *
US-PATENT-CLASS-260-211.5	c 06	N72-25149 *	US-PATENT-CLASS-260-566B	c 27	N76-32315 *	US-PATENT-CLASS-264-124	c 24	N80-26388 *
US-PATENT-CLASS-260-240G	c 27	N76-32315 *	US-PATENT-CLASS-260-567.6M	c 06	N73-32029 *	US-PATENT-CLASS-264-129	c 37	N76-31524 *
US-PATENT-CLASS-260-245.75	c 27	N86-19455 *	US-PATENT-CLASS-260-571	c 23	N76-15268 *	US-PATENT-CLASS-264-129	c 31	N83-35176 *

US-PATENT-CLASS-264-130	c 27	N78-32262 *	US-PATENT-CLASS-264-5	c 27	N82-28442 *	US-PATENT-CLASS-277-27	c 15	N72-29488 *
US-PATENT-CLASS-264-135	c 37	N74-18126 *	US-PATENT-CLASS-264-5	c 31	N83-31896 *	US-PATENT-CLASS-277-27	c 37	N74-10474 *
US-PATENT-CLASS-264-136	c 37	N74-18126 *	US-PATENT-CLASS-264-5	c 31	N83-35176 *	US-PATENT-CLASS-277-27	c 37	N74-15125 *
US-PATENT-CLASS-264-137	c 27	N79-33316 *	US-PATENT-CLASS-264-5	c 26	N86-32551 *	US-PATENT-CLASS-277-27	c 37	N75-21631 *
US-PATENT-CLASS-264-137	c 27	N81-14078 *	US-PATENT-CLASS-264-60	c 27	N76-22376 *	US-PATENT-CLASS-277-27	c 37	N82-12442 *
US-PATENT-CLASS-264-137	c 27	N81-29229 *	US-PATENT-CLASS-264-60	c 27	N79-14213 *	US-PATENT-CLASS-277-2	c 37	N82-24490 *
US-PATENT-CLASS-264-137	c 27	N83-34041 *	US-PATENT-CLASS-264-60	c 24	N84-16262 *	US-PATENT-CLASS-277-40	c 37	N75-21631 *
US-PATENT-CLASS-264-137	c 27	N85-20124 *	US-PATENT-CLASS-264-60	c 27	N87-28656 *	US-PATENT-CLASS-277-40	c 37	N82-12442 *
US-PATENT-CLASS-264-145	c 15	N79-26100 *	US-PATENT-CLASS-264-63	c 27	N76-22376 *	US-PATENT-CLASS-277-41	c 37	N76-22541 *
US-PATENT-CLASS-264-151	c 15	N79-26100 *	US-PATENT-CLASS-264-63	c 27	N87-28656 *	US-PATENT-CLASS-277-4	c 37	N76-22541 *
US-PATENT-CLASS-264-152	c 27	N85-20124 *	US-PATENT-CLASS-264-65	c 18	N73-14584 *	US-PATENT-CLASS-277-4	c 37	N82-24490 *
US-PATENT-CLASS-264-157	c 24	N78-17150 *	US-PATENT-CLASS-264-66	c 27	N76-22376 *	US-PATENT-CLASS-277-53	c 37	N86-20788 *
US-PATENT-CLASS-264-161	c 37	N76-31524 *	US-PATENT-CLASS-264-70	c 44	N79-24432 *	US-PATENT-CLASS-277-59	c 37	N82-24490 *
US-PATENT-CLASS-264-175	c 15	N79-26100 *	US-PATENT-CLASS-264-71	c 44	N79-24432 *	US-PATENT-CLASS-277-62	c 37	N79-22475 *
US-PATENT-CLASS-264-184	c 27	N78-32262 *	US-PATENT-CLASS-264-90	c 24	N78-17150 *	US-PATENT-CLASS-277-72R	c 37	N82-24490 *
US-PATENT-CLASS-264-1	c 44	N79-24432 *	US-PATENT-CLASS-264-92	c 15	N71-17803 *	US-PATENT-CLASS-277-74	c 15	N72-29488 *
US-PATENT-CLASS-264-204	c 27	N86-29039 *	US-PATENT-CLASS-264-92	c 15	N72-24522 *	US-PATENT-CLASS-277-74	c 37	N76-22541 *
US-PATENT-CLASS-264-211	c 27	N78-32262 *	US-PATENT-CLASS-264-9	c 31	N81-33319 *	US-PATENT-CLASS-277-80	c 37	N85-29284 *
US-PATENT-CLASS-264-212	c 27	N80-32516 *	US-PATENT-CLASS-264-9	c 31	N83-31896 *	US-PATENT-CLASS-277-81R	c 37	N82-16408 *
US-PATENT-CLASS-264-212	c 27	N86-31727 *	US-PATENT-CLASS-266-119	c 26	N80-28492 *	US-PATENT-CLASS-277-91	c 37	N74-15125 *
US-PATENT-CLASS-264-216	c 25	N82-21268 *	US-PATENT-CLASS-266-19	c 15	N70-33382 *	US-PATENT-CLASS-277-93R	c 37	N76-22541 *
US-PATENT-CLASS-264-216	c 27	N86-29039 *	US-PATENT-CLASS-266-24	c 26	N80-28492 *	US-PATENT-CLASS-277-93R	c 37	N82-12442 *
US-PATENT-CLASS-264-217	c 25	N75-12087 *	US-PATENT-CLASS-266-24	c 17	N72-28535 *	US-PATENT-CLASS-277-96.1	c 37	N79-22475 *
US-PATENT-CLASS-264-219	c 37	N76-31524 *	US-PATENT-CLASS-266-274	c 26	N80-28492 *	US-PATENT-CLASS-277-96	c 37	N74-10474 *
US-PATENT-CLASS-264-220	c 27	N82-28440 *	US-PATENT-CLASS-267-150	c 37	N85-34401 *	US-PATENT-CLASS-277-96	c 37	N81-24442 *
US-PATENT-CLASS-264-221	c 15	N72-16329 *	US-PATENT-CLASS-267-166	c 34	N74-18552 *	US-PATENT-CLASS-279-1B	c 37	N75-33395 *
US-PATENT-CLASS-264-225	c 15	N72-16329 *	US-PATENT-CLASS-267-1	c 15	N69-27504 *	US-PATENT-CLASS-279-107	c 37	N75-33395 *
US-PATENT-CLASS-264-227	c 15	N72-16329 *	US-PATENT-CLASS-267-1	c 15	N70-38225 *	US-PATENT-CLASS-279-3	c 37	N78-17383 *
US-PATENT-CLASS-264-229	c 24	N81-29163 *	US-PATENT-CLASS-267-64	c 15	N71-21530 *	US-PATENT-CLASS-279-89	c 37	N75-33395 *
US-PATENT-CLASS-264-22	c 15	N72-20446 *	US-PATENT-CLASS-267-8R	c 37	N85-34401 *	US-PATENT-CLASS-280-150SB	c 05	N75-25915 *
US-PATENT-CLASS-264-22	c 14	N72-22439 *	US-PATENT-CLASS-269-147	c 35	N88-24927 *	US-PATENT-CLASS-280-432	c 37	N77-14477 *
US-PATENT-CLASS-264-22	c 25	N75-12087 *	US-PATENT-CLASS-269-152	c 18	N83-29303 *	US-PATENT-CLASS-280-47.11	c 85	N87-21755 *
US-PATENT-CLASS-264-22	c 27	N80-32516 *	US-PATENT-CLASS-269-153	c 44	N79-19447 *	US-PATENT-CLASS-280-677	c 37	N90-17153 *
US-PATENT-CLASS-264-22	c 27	N82-28440 *	US-PATENT-CLASS-269-156	c 37	N80-14398 *	US-PATENT-CLASS-280-682	c 37	N90-17153 *
US-PATENT-CLASS-264-230	c 37	N82-24491 *	US-PATENT-CLASS-269-21	c 37	N76-21554 *	US-PATENT-CLASS-280-805	c 37	N82-18601 *
US-PATENT-CLASS-264-231	c 24	N81-29163 *	US-PATENT-CLASS-269-21	c 37	N78-17383 *	US-PATENT-CLASS-285-DIG.21	c 15	N72-25450 *
US-PATENT-CLASS-264-236	c 27	N78-32262 *	US-PATENT-CLASS-269-21	c 37	N78-27423 *	US-PATENT-CLASS-285-DIG.21	c 33	N73-26958 *
US-PATENT-CLASS-264-236	c 15	N79-26100 *	US-PATENT-CLASS-269-21	c 76	N80-18951 *	US-PATENT-CLASS-285-107	c 37	N89-13786 *
US-PATENT-CLASS-264-236	c 27	N86-29039 *	US-PATENT-CLASS-269-21	c 37	N81-33482 *	US-PATENT-CLASS-285-108	c 37	N89-13786 *
US-PATENT-CLASS-264-236	c 27	N86-31727 *	US-PATENT-CLASS-269-224	c 37	N84-28083 *	US-PATENT-CLASS-285-109	c 37	N89-13786 *
US-PATENT-CLASS-264-236	c 27	N89-29539 *	US-PATENT-CLASS-269-242	c 18	N83-29303 *	US-PATENT-CLASS-285-114	c 37	N75-19686 *
US-PATENT-CLASS-264-23	c 71	N78-10837 *	US-PATENT-CLASS-269-242	c 37	N84-28083 *	US-PATENT-CLASS-285-133.1	c 37	N89-13786 *
US-PATENT-CLASS-264-23	c 31	N81-15154 *	US-PATENT-CLASS-269-244	c 18	N83-29303 *	US-PATENT-CLASS-285-137.1	c 35	N87-28884 *
US-PATENT-CLASS-264-24	c 31	N81-33319 *	US-PATENT-CLASS-269-244	c 37	N84-28083 *	US-PATENT-CLASS-285-159	c 37	N82-24494 *
US-PATENT-CLASS-264-24	c 31	N83-35176 *	US-PATENT-CLASS-269-246	c 35	N88-24927 *	US-PATENT-CLASS-285-168	c 54	N86-28619 *
US-PATENT-CLASS-264-257	c 37	N74-18126 *	US-PATENT-CLASS-269-252	c 37	N84-28083 *	US-PATENT-CLASS-285-168	c 54	N86-28620 *
US-PATENT-CLASS-264-257	c 27	N89-29539 *	US-PATENT-CLASS-269-266	c 37	N78-27423 *	US-PATENT-CLASS-285-168	c 54	N86-29507 *
US-PATENT-CLASS-264-258	c 24	N81-29163 *	US-PATENT-CLASS-269-267	c 37	N89-13785 *	US-PATENT-CLASS-285-184	c 54	N86-29507 *
US-PATENT-CLASS-264-258	c 27	N83-34041 *	US-PATENT-CLASS-269-285	c 37	N84-28083 *	US-PATENT-CLASS-285-18	c 15	N72-20445 *
US-PATENT-CLASS-264-258	c 27	N85-20124 *	US-PATENT-CLASS-269-287	c 37	N80-23655 *	US-PATENT-CLASS-285-192	c 20	N78-24275 *
US-PATENT-CLASS-264-259	c 24	N81-29163 *	US-PATENT-CLASS-269-3	c 37	N84-12491 *	US-PATENT-CLASS-285-226	c 37	N75-19686 *
US-PATENT-CLASS-264-267	c 37	N76-24575 *	US-PATENT-CLASS-269-43	c 37	N88-14360 *	US-PATENT-CLASS-285-226	c 37	N76-14460 *
US-PATENT-CLASS-264-27	c 26	N71-17818 *	US-PATENT-CLASS-269-48.1	c 39	N74-13131 *	US-PATENT-CLASS-285-226	c 18	N89-28553 *
US-PATENT-CLASS-264-28	c 15	N73-12489 *	US-PATENT-CLASS-269-71	c 37	N88-14360 *	US-PATENT-CLASS-285-227	c 54	N86-29507 *
US-PATENT-CLASS-264-291	c 74	N87-28416 *	US-PATENT-CLASS-269-73	c 37	N88-14360 *	US-PATENT-CLASS-285-235	c 54	N78-31735 *
US-PATENT-CLASS-264-294	c 31	N74-13177 *	US-PATENT-CLASS-272-498	c 15	N73-28515 *	US-PATENT-CLASS-285-235	c 54	N79-24651 *
US-PATENT-CLASS-264-3R	c 28	N77-10213 *	US-PATENT-CLASS-272-DIG.1	c 05	N73-32014 *	US-PATENT-CLASS-285-24	c 15	N71-10782 *
US-PATENT-CLASS-264-3R	c 20	N77-17143 *	US-PATENT-CLASS-272-DIG.4	c 05	N73-32014 *	US-PATENT-CLASS-285-265	c 37	N76-14460 *
US-PATENT-CLASS-264-304	c 37	N76-31524 *	US-PATENT-CLASS-272-DIG.5	c 05	N73-32014 *	US-PATENT-CLASS-285-27	c 15	N70-41808 *
US-PATENT-CLASS-264-305	c 37	N76-31524 *	US-PATENT-CLASS-272-1R	c 09	N75-15662 *	US-PATENT-CLASS-285-27	c 18	N87-27713 *
US-PATENT-CLASS-264-308	c 37	N76-31524 *	US-PATENT-CLASS-272-57A	c 09	N75-15662 *	US-PATENT-CLASS-285-302	c 18	N89-25266 *
US-PATENT-CLASS-264-310	c 37	N76-31524 *	US-PATENT-CLASS-272-70	c 05	N71-28619 *	US-PATENT-CLASS-285-305	c 37	N87-22977 *
US-PATENT-CLASS-264-311	c 24	N81-29163 *	US-PATENT-CLASS-272-73	c 14	N73-27377 *	US-PATENT-CLASS-285-314	c 15	N71-24903 *
US-PATENT-CLASS-264-311	c 31	N90-19425 *	US-PATENT-CLASS-272-73	c 05	N73-27941 *	US-PATENT-CLASS-285-316	c 15	N72-25450 *
US-PATENT-CLASS-264-318	c 37	N76-31524 *	US-PATENT-CLASS-272-73	c 37	N74-18127 *	US-PATENT-CLASS-285-316	c 33	N73-26958 *
US-PATENT-CLASS-264-331.12	c 27	N85-20124 *	US-PATENT-CLASS-272-79C	c 05	N73-32014 *	US-PATENT-CLASS-285-317	c 15	N71-24903 *
US-PATENT-CLASS-264-331.19	c 27	N85-20124 *	US-PATENT-CLASS-272-80	c 37	N74-18127 *	US-PATENT-CLASS-285-31	c 18	N87-27713 *
US-PATENT-CLASS-264-331.46	c 27	N83-34041 *	US-PATENT-CLASS-273-1E	c 05	N73-13114 *	US-PATENT-CLASS-285-326	c 37	N79-11402 *
US-PATENT-CLASS-264-331	c 27	N76-16230 *	US-PATENT-CLASS-273-240	c 31	N83-34073 *	US-PATENT-CLASS-285-331	c 15	N70-41629 *
US-PATENT-CLASS-264-332	c 37	N81-25371 *	US-PATENT-CLASS-274-4R	c 09	N72-11224 *	US-PATENT-CLASS-285-33	c 15	N72-25450 *
US-PATENT-CLASS-264-332	c 27	N87-28656 *	US-PATENT-CLASS-277-105	c 37	N82-24490 *	US-PATENT-CLASS-285-345	c 15	N72-20445 *
US-PATENT-CLASS-264-334	c 37	N76-31524 *	US-PATENT-CLASS-277-116.6	c 37	N84-11497 *	US-PATENT-CLASS-285-351	c 37	N89-13786 *
US-PATENT-CLASS-264-33	c 44	N79-24432 *	US-PATENT-CLASS-277-124	c 37	N84-11497 *	US-PATENT-CLASS-285-359	c 37	N79-11402 *
US-PATENT-CLASS-264-342R	c 37	N82-24491 *	US-PATENT-CLASS-277-134	c 37	N75-21631 *	US-PATENT-CLASS-285-373	c 18	N87-27713 *
US-PATENT-CLASS-264-345	c 71	N78-10837 *	US-PATENT-CLASS-277-134	c 07	N78-25090 *	US-PATENT-CLASS-285-37	c 37	N82-24490 *
US-PATENT-CLASS-264-347	c 27	N86-29039 *	US-PATENT-CLASS-277-135	c 37	N85-29284 *	US-PATENT-CLASS-285-38	c 15	N71-24903 *
US-PATENT-CLASS-264-347	c 27	N89-29539 *	US-PATENT-CLASS-277-13	c 15	N71-26294 *	US-PATENT-CLASS-285-39	c 37	N89-13786 *
US-PATENT-CLASS-264-34	c 44	N79-24432 *	US-PATENT-CLASS-277-153	c 37	N80-28711 *	US-PATENT-CLASS-285-3	c 15	N69-27490 *
US-PATENT-CLASS-264-35	c 44	N79-24432 *	US-PATENT-CLASS-277-153	c 37	N81-26447 *	US-PATENT-CLASS-285-3	c 15	N72-25450 *
US-PATENT-CLASS-264-36	c 15	N73-12489 *	US-PATENT-CLASS-277-164	c 37	N84-11497 *	US-PATENT-CLASS-285-401	c 37	N82-24494 *
US-PATENT-CLASS-264-36	c 32	N74-27612 *	US-PATENT-CLASS-277-177	c 37	N84-11497 *	US-PATENT-CLASS-285-406	c 15	N71-24903 *
US-PATENT-CLASS-264-3	c 28	N71-26779 *	US-PATENT-CLASS-277-181	c 37	N81-15363 *	US-PATENT-CLASS-285-410	c 05	N72-11085 *
US-PATENT-CLASS-264-40.1	c 27	N89-29539 *	US-PATENT-CLASS-277-189	c 37	N82-16408 *	US-PATENT-CLASS-285-421	c 18	N87-27713 *
US-PATENT-CLASS-264-40.4	c 35	N80-18357 *	US-PATENT-CLASS-277-190	c 37	N84-11497 *	US-PATENT-CLASS-285-45	c 15	N71-28937 *
US-PATENT-CLASS-264-40.5	c 27	N89-29539 *	US-PATENT-CLASS-277-192	c 37	N79-22474 *	US-PATENT-CLASS-285-81	c 37	N87-22977 *
US-PATENT-CLASS-264-40.6	c 27	N89-29539 *	US-PATENT-CLASS-277-193	c 37	N80-28711 *	US-PATENT-CLASS-285-85	c 37	N87-22977 *
US-PATENT-CLASS-264-40	c 15	N73-12489 *	US-PATENT-CLASS-277-193	c 37	N81-26447 *	US-PATENT-CLASS-285-86	c 18	N87-27713 *
US-PATENT-CLASS-264-41	c 25	N81-19244 *	US-PATENT-CLASS-277-1	c 37	N82-24490 *	US-PATENT-CLASS-285-89	c 37	N82-24494 *
US-PATENT-CLASS-264-41	c 51	N84-28361 *	US-PATENT-CLASS-277-204	c 37	N82-24490 *	US-PATENT-CLASS-285-901	c 35	N87-28884 *
US-PATENT-CLASS-264-453	c 25	N82-21268 *	US-PATENT-CLASS-277-224	c 37	N80-28711 *	US-PATENT-CLASS-285-91	c 37	N87-22977 *
US-PATENT-CLASS-264-50	c 27	N88-23894 *	US-PATENT-CLASS-277-229	c 37	N81-15363 *	US-PATENT-CLASS-285-97	c 37	N89-13786 *
US-PATENT-CLASS-264-510	c 44	N79-24432 *	US-PATENT-CLASS-277-25	c 15	N69-21362 *	US-PATENT-CLASS-287-119	c 15	N70-41829 *
US-PATENT-CLASS-264-516	c 44	N79-24432 *	US-PATENT-CLASS-277-25	c 15	N71-19570 *	US-PATENT-CLASS-287-189.365	c 15	N71-26312 *
US-PATENT-CLASS-264-53	c 25	N82-21268 *	US-PATENT-CLASS-277-25	c 15	N72-29488 *	US-PATENT-CLASS-287-189.36	c 15	N71-10793 *
US-PATENT-CLASS-264-59	c 24	N84-16262 *	US-PATENT-CLASS-277-25	c 37	N74-10474 *	US-PATENT-CLASS-287-54A	c 11	N72-25287 *
US-PATENT-CLASS-264-5	c 31	N81-33319 *	US-PATENT-CLASS-277-25	c 07	N78-25090 *	US-PATENT-CLASS-287-85R	c 15	N73-12488 *

US-PATENT-CLASS-287-92	c 31	N73-32749 *	US-PATENT-CLASS-29-472.9	c 26	N71-16037 *	US-PATENT-CLASS-29-588	c 14	N72-31446 *
US-PATENT-CLASS-29-DIG.1	c 44	N81-14389 *	US-PATENT-CLASS-29-472.9	c 15	N72-22492 *	US-PATENT-CLASS-29-588	c 44	N74-14784 *
US-PATENT-CLASS-29-DIG.24	c 24	N75-33181 *	US-PATENT-CLASS-29-473.1	c 15	N72-22487 *	US-PATENT-CLASS-29-588	c 44	N80-14474 *
US-PATENT-CLASS-29-DIG.35	c 37	N77-23482 *	US-PATENT-CLASS-29-473.1	c 15	N72-22492 *	US-PATENT-CLASS-29-589	c 26	N72-17820 *
US-PATENT-CLASS-29-DIG.39	c 24	N75-33181 *	US-PATENT-CLASS-29-473.1	c 37	N75-15992 *	US-PATENT-CLASS-29-589	c 09	N72-25261 *
US-PATENT-CLASS-29-125	c 37	N79-10422 *	US-PATENT-CLASS-29-475	c 37	N75-12326 *	US-PATENT-CLASS-29-589	c 15	N73-14469 *
US-PATENT-CLASS-29-148.4A	c 37	N74-15128 *	US-PATENT-CLASS-29-482	c 05	N72-25121 *	US-PATENT-CLASS-29-589	c 44	N79-31752 *
US-PATENT-CLASS-29-148.4B	c 37	N74-15128 *	US-PATENT-CLASS-29-482	c 37	N74-18128 *	US-PATENT-CLASS-29-590	c 09	N72-22199 *
US-PATENT-CLASS-29-148.4	c 15	N71-16052 *	US-PATENT-CLASS-29-487	c 15	N73-33383 *	US-PATENT-CLASS-29-591	c 15	N73-14469 *
US-PATENT-CLASS-29-148.4	c 15	N71-17688 *	US-PATENT-CLASS-29-487	c 37	N74-21055 *	US-PATENT-CLASS-29-591	c 44	N79-18444 *
US-PATENT-CLASS-29-155.55	c 15	N71-15986 *	US-PATENT-CLASS-29-488	c 15	N70-33311 *	US-PATENT-CLASS-29-591	c 35	N87-14671 *
US-PATENT-CLASS-29-156.5-R	c 24	N87-27742 *	US-PATENT-CLASS-29-488	c 37	N74-18128 *	US-PATENT-CLASS-29-592	c 35	N75-13213 *
US-PATENT-CLASS-29-156.8R	c 37	N78-24544 *	US-PATENT-CLASS-29-492	c 15	N71-20443 *	US-PATENT-CLASS-29-597	c 33	N77-26385 *
US-PATENT-CLASS-29-157.3H	c 74	N83-19596 *	US-PATENT-CLASS-29-492	c 09	N72-25261 *	US-PATENT-CLASS-29-599	c 15	N72-25447 *
US-PATENT-CLASS-29-157.3R	c 34	N74-18552 *	US-PATENT-CLASS-29-494	c 15	N73-33383 *	US-PATENT-CLASS-29-599	c 26	N73-26752 *
US-PATENT-CLASS-29-157.3	c 28	N70-41818 *	US-PATENT-CLASS-29-494	c 37	N74-21055 *	US-PATENT-CLASS-29-599	c 26	N73-32571 *
US-PATENT-CLASS-29-157	c 28	N71-15568 *	US-PATENT-CLASS-29-494	c 37	N75-13261 *	US-PATENT-CLASS-29-603	c 08	N71-27210 *
US-PATENT-CLASS-29-182.1	c 18	N71-23710 *	US-PATENT-CLASS-29-495	c 15	N71-21078 *	US-PATENT-CLASS-29-604	c 24	N75-13032 *
US-PATENT-CLASS-29-182.2	c 17	N71-23046 *	US-PATENT-CLASS-29-497.5	c 15	N73-28515 *	US-PATENT-CLASS-29-610SG	c 35	N85-21598 *
US-PATENT-CLASS-29-182.2	c 37	N75-26371 *	US-PATENT-CLASS-29-497.5	c 15	N73-33383 *	US-PATENT-CLASS-29-610	c 24	N75-30260 *
US-PATENT-CLASS-29-182.5	c 17	N72-28536 *	US-PATENT-CLASS-29-497.5	c 37	N74-11300 *	US-PATENT-CLASS-29-613	c 24	N75-30260 *
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US-PATENT-CLASS-29-182.5	c 27	N76-15311 *	US-PATENT-CLASS-29-497	c 09	N72-25261 *	US-PATENT-CLASS-29-620	c 35	N82-31659 *
US-PATENT-CLASS-29-182.5	c 27	N77-13217 *	US-PATENT-CLASS-29-497	c 15	N73-32358 *	US-PATENT-CLASS-29-622	c 33	N77-26385 *
US-PATENT-CLASS-29-182	c 37	N74-13179 *	US-PATENT-CLASS-29-497	c 37	N74-18128 *	US-PATENT-CLASS-29-623.5	c 44	N83-32176 *
US-PATENT-CLASS-29-182	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 09	N72-25261 *	US-PATENT-CLASS-29-623.5	c 26	N84-22734 *
US-PATENT-CLASS-29-183.5	c 17	N70-38490 *	US-PATENT-CLASS-29-498	c 15	N73-33383 *	US-PATENT-CLASS-29-623.5	c 44	N84-28205 *
US-PATENT-CLASS-29-193	c 34	N76-27515 *	US-PATENT-CLASS-29-498	c 37	N74-11301 *	US-PATENT-CLASS-29-624	c 15	N72-20444 *
US-PATENT-CLASS-29-194	c 26	N75-19408 *	US-PATENT-CLASS-29-498	c 37	N74-18128 *	US-PATENT-CLASS-29-624	c 14	N73-13417 *
US-PATENT-CLASS-29-194	c 44	N76-14595 *	US-PATENT-CLASS-29-498	c 37	N74-21055 *	US-PATENT-CLASS-29-627	c 44	N80-14474 *
US-PATENT-CLASS-29-195A	c 27	N76-16229 *	US-PATENT-CLASS-29-502	c 09	N72-25261 *	US-PATENT-CLASS-29-628	c 15	N72-22491 *
US-PATENT-CLASS-29-195Y	c 14	N73-32320 *	US-PATENT-CLASS-29-503	c 37	N74-11301 *	US-PATENT-CLASS-29-628	c 09	N72-25261 *
US-PATENT-CLASS-29-195	c 44	N76-14595 *	US-PATENT-CLASS-29-504	c 37	N74-21055 *	US-PATENT-CLASS-29-628	c 09	N73-28083 *
US-PATENT-CLASS-29-196.2	c 17	N73-32414 *	US-PATENT-CLASS-29-504	c 37	N75-13261 *	US-PATENT-CLASS-29-628	c 33	N77-26385 *
US-PATENT-CLASS-29-196.2	c 26	N75-19408 *	US-PATENT-CLASS-29-517	c 15	N71-17650 *	US-PATENT-CLASS-29-628	c 44	N78-25528 *
US-PATENT-CLASS-29-196.6	c 17	N73-32414 *	US-PATENT-CLASS-29-521	c 26	N83-10170 *	US-PATENT-CLASS-29-629	c 09	N73-28083 *
US-PATENT-CLASS-29-196.6	c 37	N75-13261 *	US-PATENT-CLASS-29-526	c 37	N76-19437 *	US-PATENT-CLASS-29-630A	c 05	N72-25121 *
US-PATENT-CLASS-29-196.6	c 26	N75-19408 *	US-PATENT-CLASS-29-526	c 39	N76-31562 *	US-PATENT-CLASS-29-630A	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 17	N73-32414 *	US-PATENT-CLASS-29-527.2	c 15	N72-20444 *	US-PATENT-CLASS-29-630E	c 33	N77-26385 *
US-PATENT-CLASS-29-197	c 37	N75-13261 *	US-PATENT-CLASS-29-527.2	c 15	N73-32360 *	US-PATENT-CLASS-29-630	c 09	N73-28083 *
US-PATENT-CLASS-29-197	c 26	N75-19408 *	US-PATENT-CLASS-29-527.2	c 37	N74-11301 *	US-PATENT-CLASS-29-739	c 44	N79-24431 *
US-PATENT-CLASS-29-197	c 44	N76-14595 *	US-PATENT-CLASS-29-527.2	c 24	N75-33181 *	US-PATENT-CLASS-29-764	c 60	N82-24839 *
US-PATENT-CLASS-29-198	c 17	N70-33288 *	US-PATENT-CLASS-29-527.2	c 24	N77-19171 *	US-PATENT-CLASS-29-809	c 44	N79-24431 *
US-PATENT-CLASS-29-198	c 09	N72-25259 *	US-PATENT-CLASS-29-57.4	c 44	N79-24431 *	US-PATENT-CLASS-29-81C	c 75	N78-27913 *
US-PATENT-CLASS-29-203H	c 37	N74-32918 *	US-PATENT-CLASS-29-570	c 26	N72-28761 *	US-PATENT-CLASS-29-81D	c 37	N76-18454 *
US-PATENT-CLASS-29-203MW	c 33	N74-26977 *	US-PATENT-CLASS-29-571	c 35	N75-13213 *	US-PATENT-CLASS-29-825	c 44	N84-28205 *
US-PATENT-CLASS-29-203V	c 15	N73-14468 *	US-PATENT-CLASS-29-571	c 33	N78-27326 *	US-PATENT-CLASS-29-832	c 44	N81-14389 *
US-PATENT-CLASS-29-23.5	c 37	N78-24544 *	US-PATENT-CLASS-29-571	c 33	N81-26360 *	US-PATENT-CLASS-29-90-1R	c 33	N87-23904 *
US-PATENT-CLASS-29-234	c 15	N70-36901 *	US-PATENT-CLASS-29-572	c 09	N71-23027 *	US-PATENT-CLASS-29-90-1R	c 44	N85-21769 *
US-PATENT-CLASS-29-244	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 03	N71-24681 *	US-PATENT-CLASS-29-90-4R	c 44	N85-21769 *
US-PATENT-CLASS-29-25.14	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 03	N72-22041 *	US-PATENT-CLASS-29-90-4R	c 03	N71-11057 *
US-PATENT-CLASS-29-25.14	c 35	N82-24471 *	US-PATENT-CLASS-29-572	c 44	N74-14784 *	US-PATENT-CLASS-29-90-52	c 37	N77-32500 *
US-PATENT-CLASS-29-25.18	c 09	N71-26678 *	US-PATENT-CLASS-29-572	c 44	N76-14600 *	US-PATENT-CLASS-29-90-52	c 37	N77-32501 *
US-PATENT-CLASS-29-25.18	c 05	N72-25121 *	US-PATENT-CLASS-29-572	c 44	N76-28635 *	US-PATENT-CLASS-29-90-53	c 44	N80-29834 *
US-PATENT-CLASS-29-25.18	c 20	N75-18310 *	US-PATENT-CLASS-29-572	c 44	N77-10635 *	US-PATENT-CLASS-29-90-55	c 44	N84-23018 *
US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N78-24609 *	US-PATENT-CLASS-29-92.DIG.14	c 37	N75-19685 *
US-PATENT-CLASS-29-25.18	c 20	N76-21276 *	US-PATENT-CLASS-29-572	c 44	N78-25527 *	US-PATENT-CLASS-29-92.DIG.49	c 37	N87-25582 *
US-PATENT-CLASS-29-25.35	c 35	N80-20559 *	US-PATENT-CLASS-29-572	c 44	N78-25528 *	US-PATENT-CLASS-29-108	c 37	N75-19685 *
US-PATENT-CLASS-29-25.42	c 26	N72-28762 *	US-PATENT-CLASS-29-572	c 44	N78-25529 *	US-PATENT-CLASS-29-110	c 37	N77-32499 *
US-PATENT-CLASS-29-252	c 37	N78-24544 *	US-PATENT-CLASS-29-572	c 44	N79-11468 *	US-PATENT-CLASS-29-122	c 37	N75-19685 *
US-PATENT-CLASS-29-26A	c 37	N75-33395 *	US-PATENT-CLASS-29-572	c 44	N79-11472 *	US-PATENT-CLASS-29-201	c 37	N87-25582 *
US-PATENT-CLASS-29-267	c 60	N82-24839 *	US-PATENT-CLASS-29-572	c 44	N79-17314 *	US-PATENT-CLASS-29-252	c 37	N85-21649 *
US-PATENT-CLASS-29-268	c 37	N74-32918 *	US-PATENT-CLASS-29-572	c 44	N79-18444 *	US-PATENT-CLASS-29-27	c 37	N90-17154 *
US-PATENT-CLASS-29-271	c 15	N70-41371 *	US-PATENT-CLASS-29-572	c 44	N79-24431 *	US-PATENT-CLASS-29-34	c 37	N90-17154 *
US-PATENT-CLASS-29-278R	c 15	N71-29133 *	US-PATENT-CLASS-29-572	c 44	N79-26475 *	US-PATENT-CLASS-29-64	c 37	N87-25582 *
US-PATENT-CLASS-29-400	c 05	N71-12345 *	US-PATENT-CLASS-29-572	c 44	N79-31752 *	US-PATENT-CLASS-29-94-1R	c 35	N76-16392 *
US-PATENT-CLASS-29-402.16	c 37	N86-32736 *	US-PATENT-CLASS-29-572	c 44	N80-14474 *	US-PATENT-CLASS-29-106	c 37	N81-14320 *
US-PATENT-CLASS-29-412	c 15	N72-20444 *	US-PATENT-CLASS-29-572	c 44	N82-28780 *	US-PATENT-CLASS-29-106	c 37	N88-23979 *
US-PATENT-CLASS-29-419	c 24	N75-28135 *	US-PATENT-CLASS-29-572	c 44	N82-29709 *	US-PATENT-CLASS-29-113	c 37	N80-14398 *
US-PATENT-CLASS-29-420.5	c 26	N74-10521 *	US-PATENT-CLASS-29-572	c 44	N83-13579 *	US-PATENT-CLASS-29-113	c 37	N88-23979 *
US-PATENT-CLASS-29-420.5	c 37	N74-13179 *	US-PATENT-CLASS-29-572	c 76	N86-20150 *	US-PATENT-CLASS-29-116	c 37	N75-33395 *
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US-PATENT-CLASS-29-420	c 24	N75-13032 *	US-PATENT-CLASS-29-573	c 14	N73-13417 *	US-PATENT-CLASS-29-119.2	c 37	N88-23979 *
US-PATENT-CLASS-29-421E	c 37	N79-13364 *	US-PATENT-CLASS-29-575	c 76	N87-15882 *	US-PATENT-CLASS-29-15	c 15	N71-29133 *
US-PATENT-CLASS-29-421	c 15	N71-29018 *	US-PATENT-CLASS-29-576-E	c 76	N87-15882 *	US-PATENT-CLASS-29-16	c 37	N88-23979 *
US-PATENT-CLASS-29-421	c 14	N72-22439 *	US-PATENT-CLASS-29-576-J	c 76	N87-15882 *	US-PATENT-CLASS-29-19R	c 35	N76-16392 *
US-PATENT-CLASS-29-421	c 37	N76-14461 *	US-PATENT-CLASS-29-576-W	c 76	N87-15882 *	US-PATENT-CLASS-29-83	c 15	N71-24897 *
US-PATENT-CLASS-29-423	c 15	N70-36409 *	US-PATENT-CLASS-29-576B	c 44	N86-32875 *	US-PATENT-CLASS-29-86.33	c 37	N75-33395 *
US-PATENT-CLASS-29-423	c 31	N74-21059 *	US-PATENT-CLASS-29-576E	c 76	N85-30922 *	US-PATENT-CLASS-29-86R	c 37	N80-14398 *
US-PATENT-CLASS-29-423	c 52	N84-28389 *	US-PATENT-CLASS-29-576J	c 35	N82-31659 *	US-PATENT-CLASS-29-86R	c 37	N81-27519 *
US-PATENT-CLASS-29-426	c 15	N72-20444 *	US-PATENT-CLASS-29-576J	c 76	N85-30922 *	US-PATENT-CLASS-29-88R	c 18	N83-29303 *
US-PATENT-CLASS-29-428	c 15	N71-17686 *	US-PATENT-CLASS-29-576S	c 35	N82-31659 *	US-PATENT-CLASS-29-88	c 37	N89-13785 *
US-PATENT-CLASS-29-432	c 37	N76-19437 *	US-PATENT-CLASS-29-576W	c 76	N85-30922 *	US-PATENT-CLASS-29-93	c 54	N81-26718 *
US-PATENT-CLASS-29-433	c 37	N76-19437 *	US-PATENT-CLASS-29-577	c 44	N79-26475 *	US-PATENT-CLASS-29-96-1S	c 85	N82-32888 *
US-PATENT-CLASS-29-446	c 37	N83-36482 *	US-PATENT-CLASS-29-578	c 26	N72-17820 *	US-PATENT-CLASS-29-96-1S	c 02	N88-14071 *
US-PATENT-CLASS-29-447	c 37	N77-23482 *	US-PATENT-CLASS-29-578	c 33	N78-27326 *	US-PATENT-CLASS-29-100	c 37	N87-17036 *
US-PATENT-CLASS-29-451	c 52	N84-28389 *	US-PATENT-CLASS-29-578	c 44	N79-18444 *	US-PATENT-CLASS-29-20	c 85	N87-21755 *
US-PATENT-CLASS-29-452	c 15	N73-30457 *	US-PATENT-CLASS-29-578	c 44	N79-26475 *	US-PATENT-CLASS-29-24C	c 85	N82-33288 *
US-PATENT-CLASS-29-458	c 26	N83-10170 *	US-PATENT-CLASS-29-578	c 33	N81-26360 *	US-PATENT-CLASS-29-91	c 85	N82-33288 *
US-PATENT-CLASS-29-460	c 37	N74-11301 *	US-PATENT-CLASS-29-578	c 76	N85-30922 *	US-PATENT-CLASS-29-97.DIG.5	c 03	N84-33394 *
US-PATENT-CLASS-29-460	c 37	N75-13261 *	US-PATENT-CLASS-29-578	c 76	N87-15882 *	US-PATENT-CLASS-29-216	c 05	N70-35152 *
US-PATENT-CLASS-29-463	c 07	N78-33101 *	US-PATENT-CLASS-29-580	c 09	N73-27150 *	US-PATENT-CLASS-29-216	c 37	N88-23982 *
US-PATENT-CLASS-29-467	c 39	N76-31562 *	US-PATENT-CLASS-29-580	c 44	N79-26475 *	US-PATENT-CLASS-29-232	c 05	N72-11085 *
US-PATENT-CLASS-29-470.1	c 37	N74-21057 *	US-PATENT-CLASS-29-580	c 33	N81-26360 *	US-PATENT-CLASS-29-385	c 05	N71-12341 *
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US-PATENT-CLASS-29-472.7	c 37	N75-15992 *	US-PATENT-CLASS-29-580	c 14	N71-27334 *	US-PATENT-CLASS-29-386	c 15	N73-30460 *
US-PATENT-CLASS-29-472.9	c 15	N69-39786 *	US-PATENT-CLASS-29-588					

US-PATENT-CLASS-297-388	c 05	N75-25915 *	US-PATENT-CLASS-307-229	c 09	N72-23173 *	US-PATENT-CLASS-307-288	c 09	N72-22202 *
US-PATENT-CLASS-297-389	c 05	N75-25915 *	US-PATENT-CLASS-307-229	c 33	N75-18479 *	US-PATENT-CLASS-307-289	c 10	N71-19547 *
US-PATENT-CLASS-297-68	c 05	N71-12343 *	US-PATENT-CLASS-307-229	c 33	N77-17354 *	US-PATENT-CLASS-307-28	c 03	N73-31988 *
US-PATENT-CLASS-297-68	c 05	N72-11085 *	US-PATENT-CLASS-307-229	c 33	N78-32339 *	US-PATENT-CLASS-307-290	c 33	N74-22814 *
US-PATENT-CLASS-299-13	c 43	N81-26509 *	US-PATENT-CLASS-307-230	c 10	N72-16172 *	US-PATENT-CLASS-307-291	c 60	N81-15706 *
US-PATENT-CLASS-299-17	c 43	N81-26509 *	US-PATENT-CLASS-307-230	c 09	N72-21245 *	US-PATENT-CLASS-307-294	c 09	N71-29139 *
US-PATENT-CLASS-299-1	c 43	N79-26439 *	US-PATENT-CLASS-307-230	c 09	N73-20232 *	US-PATENT-CLASS-307-295	c 10	N72-17171 *
US-PATENT-CLASS-299-1	c 35	N84-33768 *	US-PATENT-CLASS-307-230	c 33	N74-32712 *	US-PATENT-CLASS-307-295	c 10	N72-20223 *
US-PATENT-CLASS-299-20	c 43	N81-26509 *	US-PATENT-CLASS-307-230	c 33	N77-17354 *	US-PATENT-CLASS-307-295	c 09	N72-21245 *
US-PATENT-CLASS-299-67	c 46	N74-23068 *	US-PATENT-CLASS-307-230	c 33	N78-32339 *	US-PATENT-CLASS-307-295	c 09	N72-33204 *
US-PATENT-CLASS-299-86	c 46	N74-23069 *	US-PATENT-CLASS-307-231	c 09	N72-22202 *	US-PATENT-CLASS-307-295	c 33	N74-34638 *
US-PATENT-CLASS-3-1.1	c 05	N73-32013 *	US-PATENT-CLASS-307-232	c 33	N77-21314 *	US-PATENT-CLASS-307-295	c 33	N77-13315 *
US-PATENT-CLASS-3-1.1	c 52	N77-14738 *	US-PATENT-CLASS-307-232	c 33	N79-11313 *	US-PATENT-CLASS-307-296	c 08	N71-12494 *
US-PATENT-CLASS-3-1.1	c 54	N79-24652 *	US-PATENT-CLASS-307-233R	c 32	N79-10262 *	US-PATENT-CLASS-307-296	c 07	N71-28430 *
US-PATENT-CLASS-3-1.1	c 74	N84-11921 *	US-PATENT-CLASS-307-233R	c 33	N81-17348 *	US-PATENT-CLASS-307-297	c 33	N78-17294 *
US-PATENT-CLASS-3-1.2	c 52	N77-14735 *	US-PATENT-CLASS-307-233	c 09	N72-25257 *	US-PATENT-CLASS-307-299	c 08	N72-21198 *
US-PATENT-CLASS-3-1.2	c 52	N78-10686 *	US-PATENT-CLASS-307-233	c 10	N73-26229 *	US-PATENT-CLASS-307-299	c 26	N72-21701 *
US-PATENT-CLASS-3-1.9	c 27	N78-17215 *	US-PATENT-CLASS-307-235	c 33	N77-13315 *	US-PATENT-CLASS-307-29	c 03	N73-31988 *
US-PATENT-CLASS-3-1.9	c 52	N79-26772 *	US-PATENT-CLASS-307-234	c 10	N71-23315 *	US-PATENT-CLASS-307-300	c 10	N71-27126 *
US-PATENT-CLASS-3-12.5	c 54	N78-17676 *	US-PATENT-CLASS-307-234	c 09	N71-27016 *	US-PATENT-CLASS-307-303	c 08	N72-21198 *
US-PATENT-CLASS-3-12.5	c 54	N79-24652 *	US-PATENT-CLASS-307-234	c 08	N71-29138 *	US-PATENT-CLASS-307-304	c 09	N72-22201 *
US-PATENT-CLASS-3-12	c 05	N73-32013 *	US-PATENT-CLASS-307-235R	c 33	N75-18479 *	US-PATENT-CLASS-307-304	c 09	N73-20232 *
US-PATENT-CLASS-3-12	c 52	N79-26772 *	US-PATENT-CLASS-307-235	c 10	N71-19471 *	US-PATENT-CLASS-307-304	c 33	N74-34638 *
US-PATENT-CLASS-3-14	c 52	N77-14735 *	US-PATENT-CLASS-307-235	c 09	N71-23545 *	US-PATENT-CLASS-307-305	c 09	N72-23171 *
US-PATENT-CLASS-3-15	c 52	N78-10686 *	US-PATENT-CLASS-307-235	c 10	N71-24862 *	US-PATENT-CLASS-307-306	c 33	N78-13320 *
US-PATENT-CLASS-3-1	c 52	N77-25772 *	US-PATENT-CLASS-307-237	c 09	N72-22200 *	US-PATENT-CLASS-307-306	c 33	N81-17348 *
US-PATENT-CLASS-3-21	c 54	N77-30749 *	US-PATENT-CLASS-307-237	c 32	N74-19788 *	US-PATENT-CLASS-307-308	c 14	N73-28488 *
US-PATENT-CLASS-3-29	c 52	N78-10686 *	US-PATENT-CLASS-307-238	c 33	N75-31331 *	US-PATENT-CLASS-307-309	c 35	N75-13213 *
US-PATENT-CLASS-3-2	c 05	N73-32013 *	US-PATENT-CLASS-307-238	c 33	N77-21314 *	US-PATENT-CLASS-307-310	c 09	N73-14214 *
US-PATENT-CLASS-3-2	c 54	N77-30749 *	US-PATENT-CLASS-307-241	c 09	N72-22201 *	US-PATENT-CLASS-307-311	c 14	N72-18411 *
US-PATENT-CLASS-3-2	c 52	N79-26772 *	US-PATENT-CLASS-307-242	c 10	N73-13235 *	US-PATENT-CLASS-307-311	c 08	N72-21198 *
US-PATENT-CLASS-3-6	c 05	N73-32013 *	US-PATENT-CLASS-307-243	c 09	N71-12516 *	US-PATENT-CLASS-307-311	c 09	N73-14214 *
US-PATENT-CLASS-30-102	c 37	N82-26672 *	US-PATENT-CLASS-307-243	c 08	N72-22162 *	US-PATENT-CLASS-307-313	c 10	N72-20221 *
US-PATENT-CLASS-30-180	c 37	N84-28085 *	US-PATENT-CLASS-307-243	c 33	N74-22814 *	US-PATENT-CLASS-307-317	c 09	N72-22200 *
US-PATENT-CLASS-30-188	c 37	N84-28085 *	US-PATENT-CLASS-307-246	c 09	N71-27016 *	US-PATENT-CLASS-307-317	c 09	N72-22201 *
US-PATENT-CLASS-30-228	c 15	N70-42017 *	US-PATENT-CLASS-307-247	c 09	N71-29139 *	US-PATENT-CLASS-307-31	c 44	N87-21410 *
US-PATENT-CLASS-30-228	c 37	N84-28085 *	US-PATENT-CLASS-307-247	c 09	N72-22202 *	US-PATENT-CLASS-307-321	c 33	N75-19520 *
US-PATENT-CLASS-30-249	c 37	N84-28085 *	US-PATENT-CLASS-307-251	c 09	N71-33109 *	US-PATENT-CLASS-307-321	c 33	N75-25041 *
US-PATENT-CLASS-30-272R	c 37	N84-28085 *	US-PATENT-CLASS-307-251	c 08	N72-22162 *	US-PATENT-CLASS-307-322	c 10	N72-22236 *
US-PATENT-CLASS-30-90.6	c 37	N79-10419 *	US-PATENT-CLASS-307-252F	c 09	N72-17153 *	US-PATENT-CLASS-307-323	c 10	N72-22236 *
US-PATENT-CLASS-301-5P	c 37	N74-18125 *	US-PATENT-CLASS-307-252J	c 09	N72-17153 *	US-PATENT-CLASS-307-350	c 33	N78-18308 *
US-PATENT-CLASS-301-82	c 33	N79-10339 *	US-PATENT-CLASS-307-252J	c 09	N72-22201 *	US-PATENT-CLASS-307-352	c 33	N81-27396 *
US-PATENT-CLASS-302-66	c 25	N79-11152 *	US-PATENT-CLASS-307-252K	c 09	N72-22201 *	US-PATENT-CLASS-307-353	c 33	N81-27396 *
US-PATENT-CLASS-303-92	c 44	N79-14527 *	US-PATENT-CLASS-307-252L	c 33	N74-27682 *	US-PATENT-CLASS-307-354	c 33	N87-21235 *
US-PATENT-CLASS-305-35EB	c 11	N73-26238 *	US-PATENT-CLASS-307-252N	c 09	N72-23171 *	US-PATENT-CLASS-307-35	c 33	N74-34638 *
US-PATENT-CLASS-305-36	c 37	N87-17034 *	US-PATENT-CLASS-307-252Q	c 33	N74-27682 *	US-PATENT-CLASS-307-360	c 33	N78-18308 *
US-PATENT-CLASS-305-39	c 11	N73-26238 *	US-PATENT-CLASS-307-252R	c 09	N72-23171 *	US-PATENT-CLASS-307-38	c 03	N73-31988 *
US-PATENT-CLASS-305-51	c 37	N87-17034 *	US-PATENT-CLASS-307-252UA	c 33	N81-27395 *	US-PATENT-CLASS-307-415	c 33	N82-24418 *
US-PATENT-CLASS-305-58PC	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 10	N69-39888 *	US-PATENT-CLASS-307-425	c 36	N87-25567 *
US-PATENT-CLASS-305-58R	c 37	N87-17034 *	US-PATENT-CLASS-307-252	c 09	N71-12514 *	US-PATENT-CLASS-307-490	c 33	N87-22895 *
US-PATENT-CLASS-307-103	c 09	N72-25262 *	US-PATENT-CLASS-307-253	c 10	N71-27126 *	US-PATENT-CLASS-307-520	c 33	N85-29145 *
US-PATENT-CLASS-307-104	c 09	N71-24892 *	US-PATENT-CLASS-307-254	c 10	N71-24799 *	US-PATENT-CLASS-307-521	c 33	N85-29145 *
US-PATENT-CLASS-307-106	c 09	N69-21468 *	US-PATENT-CLASS-307-254	c 09	N72-22200 *	US-PATENT-CLASS-307-529	c 33	N85-29145 *
US-PATENT-CLASS-307-106	c 33	N88-24862 *	US-PATENT-CLASS-307-257	c 09	N72-21247 *	US-PATENT-CLASS-307-53	c 10	N71-26626 *
US-PATENT-CLASS-307-118	c 09	N72-27227 *	US-PATENT-CLASS-307-259	c 09	N72-21247 *	US-PATENT-CLASS-307-53	c 33	N78-17296 *
US-PATENT-CLASS-307-119	c 33	N79-28415 *	US-PATENT-CLASS-307-259	c 09	N72-23171 *	US-PATENT-CLASS-307-566	c 33	N86-20672 *
US-PATENT-CLASS-307-126	c 14	N71-27407 *	US-PATENT-CLASS-307-259	c 10	N73-13235 *	US-PATENT-CLASS-307-570	c 33	N86-20672 *
US-PATENT-CLASS-307-127	c 33	N74-14956 *	US-PATENT-CLASS-307-260	c 09	N71-23311 *	US-PATENT-CLASS-307-572	c 33	N86-20672 *
US-PATENT-CLASS-307-131	c 44	N87-21410 *	US-PATENT-CLASS-307-260	c 05	N71-23317 *	US-PATENT-CLASS-307-63	c 44	N80-14472 *
US-PATENT-CLASS-307-136	c 09	N69-27500 *	US-PATENT-CLASS-307-260	c 33	N75-19515 *	US-PATENT-CLASS-307-64	c 33	N77-30365 *
US-PATENT-CLASS-307-141.8	c 03	N72-25020 *	US-PATENT-CLASS-307-261	c 09	N71-33109 *	US-PATENT-CLASS-307-64	c 44	N85-21769 *
US-PATENT-CLASS-307-149	c 09	N71-13486 *	US-PATENT-CLASS-307-261	c 09	N72-25251 *	US-PATENT-CLASS-307-64	c 44	N87-21410 *
US-PATENT-CLASS-307-149	c 54	N75-12616 *	US-PATENT-CLASS-307-261	c 33	N87-21235 *	US-PATENT-CLASS-307-66	c 44	N80-14472 *
US-PATENT-CLASS-307-151	c 32	N78-24391 *	US-PATENT-CLASS-307-262	c 10	N72-16172 *	US-PATENT-CLASS-307-66	c 44	N85-21769 *
US-PATENT-CLASS-307-157	c 16	N73-32391 *	US-PATENT-CLASS-307-262	c 09	N72-22197 *	US-PATENT-CLASS-307-66	c 44	N87-21410 *
US-PATENT-CLASS-307-18	c 03	N73-31988 *	US-PATENT-CLASS-307-262	c 09	N72-33204 *	US-PATENT-CLASS-307-69	c 33	N78-17296 *
US-PATENT-CLASS-307-18	c 33	N74-34638 *	US-PATENT-CLASS-307-263	c 09	N71-23270 *	US-PATENT-CLASS-307-80	c 44	N87-21410 *
US-PATENT-CLASS-307-204	c 35	N75-30504 *	US-PATENT-CLASS-307-263	c 09	N71-28926 *	US-PATENT-CLASS-307-81	c 09	N72-17157 *
US-PATENT-CLASS-307-205	c 33	N75-14957 *	US-PATENT-CLASS-307-264	c 33	N86-20672 *	US-PATENT-CLASS-307-82	c 33	N79-24254 *
US-PATENT-CLASS-307-206	c 10	N72-22236 *	US-PATENT-CLASS-307-265	c 09	N69-39987 *	US-PATENT-CLASS-307-82	c 33	N85-29147 *
US-PATENT-CLASS-307-207	c 08	N71-29034 *	US-PATENT-CLASS-307-265	c 10	N71-23029 *	US-PATENT-CLASS-307-83	c 09	N72-25262 *
US-PATENT-CLASS-307-207	c 09	N73-13209 *	US-PATENT-CLASS-307-265	c 09	N71-28468 *	US-PATENT-CLASS-307-87	c 33	N84-33660 *
US-PATENT-CLASS-307-208	c 33	N75-14957 *	US-PATENT-CLASS-307-265	c 10	N71-28860 *	US-PATENT-CLASS-307-88.3	c 09	N72-25258 *
US-PATENT-CLASS-307-211	c 35	N75-30504 *	US-PATENT-CLASS-307-265	c 08	N71-29138 *	US-PATENT-CLASS-307-88.5	c 09	N70-34819 *
US-PATENT-CLASS-307-215	c 10	N71-28860 *	US-PATENT-CLASS-307-265	c 09	N71-29139 *	US-PATENT-CLASS-307-88.5	c 09	N70-40272 *
US-PATENT-CLASS-307-215	c 09	N71-29139 *	US-PATENT-CLASS-307-265	c 33	N78-18308 *	US-PATENT-CLASS-307-88.5	c 09	N70-41675 *
US-PATENT-CLASS-307-215	c 10	N72-22236 *	US-PATENT-CLASS-307-267	c 09	N71-20447 *	US-PATENT-CLASS-307-88.5	c 10	N70-42032 *
US-PATENT-CLASS-307-215	c 09	N73-13209 *	US-PATENT-CLASS-307-267	c 33	N74-32711 *	US-PATENT-CLASS-307-88.5	c 09	N71-10673 *
US-PATENT-CLASS-307-215	c 33	N74-22814 *	US-PATENT-CLASS-307-267	c 33	N75-18479 *	US-PATENT-CLASS-307-88.5	c 10	N71-15910 *
US-PATENT-CLASS-307-216	c 08	N71-18751 *	US-PATENT-CLASS-307-268	c 09	N69-24317 *	US-PATENT-CLASS-307-88.5	c 10	N71-16042 *
US-PATENT-CLASS-307-219	c 35	N75-30504 *	US-PATENT-CLASS-307-269	c 60	N81-15706 *	US-PATENT-CLASS-307-88.5	c 10	N71-28739 *
US-PATENT-CLASS-307-219	c 60	N81-15706 *	US-PATENT-CLASS-307-270	c 33	N78-17294 *	US-PATENT-CLASS-307-88MP	c 09	N72-22197 *
US-PATENT-CLASS-307-220	c 10	N73-26229 *	US-PATENT-CLASS-307-270	c 33	N86-20672 *	US-PATENT-CLASS-307-88	c 08	N70-34743 *
US-PATENT-CLASS-307-221R	c 10	N73-20254 *	US-PATENT-CLASS-307-271	c 10	N73-32145 *	US-PATENT-CLASS-307-88	c 09	N70-38604 *
US-PATENT-CLASS-307-221R	c 33	N76-14373 *	US-PATENT-CLASS-307-271	c 33	N85-29145 *	US-PATENT-CLASS-307-88	c 09	N71-24803 *
US-PATENT-CLASS-307-222	c 09	N69-27463 *	US-PATENT-CLASS-307-273	c 10	N71-18723 *	US-PATENT-CLASS-307-88	c 09	N71-26000 *
US-PATENT-CLASS-307-222	c 08	N71-29034 *	US-PATENT-CLASS-307-273	c 09	N71-27016 *	US-PATENT-CLASS-307-92	c 09	N72-27227 *
US-PATENT-CLASS-307-223B	c 09	N72-22201 *	US-PATENT-CLASS-307-273	c 09	N71-28468 *	US-PATENT-CLASS-307-98	c 33	N79-28415 *
US-PATENT-CLASS-307-223	c 09	N72-17157 *	US-PATENT-CLASS-307-273	c 10	N71-28860 *	US-PATENT-CLASS-308-DIG.1	c 15	N72-17451 *
US-PATENT-CLASS-307-225R	c 33	N74-10223 *	US-PATENT-CLASS-307-273	c 09	N71-29139 *	US-PATENT-CLASS-308-DIG.1	c 37	N79-10418 *
US-PATENT-CLASS-307-225R	c 33	N75-31330 *	US-PATENT-CLASS-307-273	c 10	N72-20221 *	US-PATENT-CLASS-308-DIG.8	c 24	N79-17916 *
US-PATENT-CLASS-307-225R	c 33	N77-24375 *	US-PATENT-CLASS-307-280	c 33	N72-21314 *	US-PATENT-CLASS-308-DIG.9	c 24	N79-17916 *
US-PATENT-CLASS-307-225R	c 60	N81-15706 *	US-PATENT-CLASS-307-284	c 09	N72-22201 *	US-PATENT-CLASS-308-10	c 15	N71-22997 *
US-PATENT-CLASS-307-227	c 09	N72-17157 *	US-PATENT-CLASS-307-288	c 09	N71-23015 *	US-PATENT-CLASS-308-10	c 15	N72-33476 *
US-PATENT-CLASS-307-227	c 33	N75-19522 *	US-PATENT-CLASS-307-288	c 09	N71-28468 *	US-PATENT-CLASS-308-10	c 35	N74-18323 *
US-PATENT-CLASS-307-229	c 09	N71-12520 *	US-PATENT-CLASS-307-288	c 10	N72-20221 *	US-PATENT-CLASS-308-10	c 37	N75-18574 *

US-PATENT-CLASS-308-10	c 37	N76-18459 *	US-PATENT-CLASS-310-171	c 35	N84-28017 *	US-PATENT-CLASS-313-161	c 25	N73-25760 *
US-PATENT-CLASS-308-10	c 37	N77-17464 *	US-PATENT-CLASS-310-178	c 44	N78-24608 *	US-PATENT-CLASS-313-161	c 09	N73-30181 *
US-PATENT-CLASS-308-10	c 44	N78-24608 *	US-PATENT-CLASS-310-20	c 71	N79-20827 *	US-PATENT-CLASS-313-161	c 33	N77-21315 *
US-PATENT-CLASS-308-10	c 37	N78-27424 *	US-PATENT-CLASS-310-22	c 31	N85-21404 *	US-PATENT-CLASS-313-175	c 33	N77-21316 *
US-PATENT-CLASS-308-10	c 35	N79-26372 *	US-PATENT-CLASS-310-231	c 33	N79-20314 *	US-PATENT-CLASS-313-175	c 31	N78-17238 *
US-PATENT-CLASS-308-10	c 71	N81-15767 *	US-PATENT-CLASS-310-254	c 09	N71-25999 *	US-PATENT-CLASS-313-176	c 31	N78-17238 *
US-PATENT-CLASS-308-10	c 44	N83-28574 *	US-PATENT-CLASS-310-269	c 44	N78-24608 *	US-PATENT-CLASS-313-180	c 33	N77-21316 *
US-PATENT-CLASS-308-10	c 37	N83-32067 *	US-PATENT-CLASS-310-26	c 71	N79-20827 *	US-PATENT-CLASS-313-180	c 31	N78-17238 *
US-PATENT-CLASS-308-10	c 37	N83-34323 *	US-PATENT-CLASS-310-2	c 03	N72-23048 *	US-PATENT-CLASS-313-182	c 33	N77-22386 *
US-PATENT-CLASS-308-10	c 71	N83-36846 *	US-PATENT-CLASS-310-300	c 71	N84-23233 *	US-PATENT-CLASS-313-184	c 33	N77-21315 *
US-PATENT-CLASS-308-10	c 37	N85-20337 *	US-PATENT-CLASS-310-306	c 33	N80-18287 *	US-PATENT-CLASS-313-184	c 33	N77-21316 *
US-PATENT-CLASS-308-121	c 37	N74-32921 *	US-PATENT-CLASS-310-306	c 44	N83-32175 *	US-PATENT-CLASS-313-184	c 31	N78-17238 *
US-PATENT-CLASS-308-121	c 37	N75-30562 *	US-PATENT-CLASS-310-306	c 34	N85-29179 *	US-PATENT-CLASS-313-186	c 25	N72-24753 *
US-PATENT-CLASS-308-121	c 37	N79-10418 *	US-PATENT-CLASS-310-306	c 37	N87-23970 *	US-PATENT-CLASS-313-209	c 33	N74-12913 *
US-PATENT-CLASS-308-122	c 37	N76-15461 *	US-PATENT-CLASS-310-30	c 44	N80-29834 *	US-PATENT-CLASS-313-212	c 25	N72-24753 *
US-PATENT-CLASS-308-160	c 37	N76-15461 *	US-PATENT-CLASS-310-30	c 33	N72-23904 *	US-PATENT-CLASS-313-217	c 28	N73-27699 *
US-PATENT-CLASS-308-160	c 37	N76-29588 *	US-PATENT-CLASS-310-311	c 35	N80-20559 *	US-PATENT-CLASS-313-217	c 33	N74-12913 *
US-PATENT-CLASS-308-160	c 37	N79-10418 *	US-PATENT-CLASS-310-317	c 35	N84-22932 *	US-PATENT-CLASS-313-218	c 28	N73-27699 *
US-PATENT-CLASS-308-163	c 37	N76-29588 *	US-PATENT-CLASS-310-319	c 33	N80-23559 *	US-PATENT-CLASS-313-224	c 25	N72-24753 *
US-PATENT-CLASS-308-163	c 37	N79-10418 *	US-PATENT-CLASS-310-322	c 71	N79-20827 *	US-PATENT-CLASS-313-224	c 33	N74-12913 *
US-PATENT-CLASS-308-168	c 24	N79-17916 *	US-PATENT-CLASS-310-324	c 33	N86-20671 *	US-PATENT-CLASS-313-224	c 33	N77-21315 *
US-PATENT-CLASS-308-170	c 15	N71-28465 *	US-PATENT-CLASS-310-326	c 38	N79-14398 *	US-PATENT-CLASS-313-224	c 31	N78-17238 *
US-PATENT-CLASS-308-170	c 37	N76-29588 *	US-PATENT-CLASS-310-327	c 35	N80-20559 *	US-PATENT-CLASS-313-22	c 09	N71-26787 *
US-PATENT-CLASS-308-171	c 24	N79-17916 *	US-PATENT-CLASS-310-332	c 76	N83-34796 *	US-PATENT-CLASS-313-22	c 31	N78-17237 *
US-PATENT-CLASS-308-172	c 37	N79-10418 *	US-PATENT-CLASS-310-334	c 71	N79-20827 *	US-PATENT-CLASS-313-22	c 31	N78-25256 *
US-PATENT-CLASS-308-174	c 54	N75-12616 *	US-PATENT-CLASS-310-334	c 35	N80-20559 *	US-PATENT-CLASS-313-22	c 34	N79-20336 *
US-PATENT-CLASS-308-176	c 15	N71-22982 *	US-PATENT-CLASS-310-334	c 35	N84-22932 *	US-PATENT-CLASS-313-230	c 28	N71-28850 *
US-PATENT-CLASS-308-177	c 15	N71-29136 *	US-PATENT-CLASS-310-336	c 38	N79-14398 *	US-PATENT-CLASS-313-230	c 28	N73-27699 *
US-PATENT-CLASS-308-187	c 15	N71-26189 *	US-PATENT-CLASS-310-338	c 35	N89-14407 *	US-PATENT-CLASS-313-230	c 20	N77-20162 *
US-PATENT-CLASS-308-188	c 15	N73-30458 *	US-PATENT-CLASS-310-360	c 35	N80-20559 *	US-PATENT-CLASS-313-231.3	c 20	N77-20162 *
US-PATENT-CLASS-308-188	c 37	N74-21064 *	US-PATENT-CLASS-310-366	c 35	N84-22932 *	US-PATENT-CLASS-313-231.3	c 75	N78-27913 *
US-PATENT-CLASS-308-191	c 37	N74-21064 *	US-PATENT-CLASS-310-4A	c 37	N77-19458 *	US-PATENT-CLASS-313-231.4	c 20	N77-10148 *
US-PATENT-CLASS-308-191	c 37	N75-31446 *	US-PATENT-CLASS-310-4R	c 33	N74-27683 *	US-PATENT-CLASS-313-231.4	c 72	N80-33186 *
US-PATENT-CLASS-308-193	c 15	N73-30458 *	US-PATENT-CLASS-310-4R	c 73	N77-18891 *	US-PATENT-CLASS-313-231	c 06	N69-39889 *
US-PATENT-CLASS-308-194	c 37	N79-11404 *	US-PATENT-CLASS-310-40	c 20	N75-24837 *	US-PATENT-CLASS-313-231	c 09	N71-23190 *
US-PATENT-CLASS-308-195	c 15	N72-22490 *	US-PATENT-CLASS-310-42	c 14	N72-22439 *	US-PATENT-CLASS-313-231	c 09	N71-33519 *
US-PATENT-CLASS-308-195	c 37	N75-31446 *	US-PATENT-CLASS-310-46	c 33	N79-20314 *	US-PATENT-CLASS-313-231	c 25	N72-24753 *
US-PATENT-CLASS-308-195	c 37	N77-32500 *	US-PATENT-CLASS-310-4	c 09	N69-21313 *	US-PATENT-CLASS-313-231	c 25	N72-32688 *
US-PATENT-CLASS-308-195	c 37	N77-32501 *	US-PATENT-CLASS-310-4	c 03	N69-39898 *	US-PATENT-CLASS-313-231	c 28	N73-24783 *
US-PATENT-CLASS-308-1	c 31	N71-26537 *	US-PATENT-CLASS-310-4	c 09	N69-39929 *	US-PATENT-CLASS-313-231	c 25	N73-25760 *
US-PATENT-CLASS-308-2A	c 15	N72-26371 *	US-PATENT-CLASS-310-4	c 03	N70-34134 *	US-PATENT-CLASS-313-236	c 09	N71-26182 *
US-PATENT-CLASS-308-2A	c 15	N73-12488 *	US-PATENT-CLASS-310-4	c 03	N71-11055 *	US-PATENT-CLASS-313-237	c 09	N71-26182 *
US-PATENT-CLASS-308-2A	c 37	N84-12492 *	US-PATENT-CLASS-310-4	c 22	N71-23599 *	US-PATENT-CLASS-313-237	c 33	N87-28832 *
US-PATENT-CLASS-308-201	c 37	N75-31446 *	US-PATENT-CLASS-310-4	c 09	N71-24807 *	US-PATENT-CLASS-313-240	c 20	N77-10148 *
US-PATENT-CLASS-308-2	c 15	N71-23812 *	US-PATENT-CLASS-310-4	c 33	N71-27862 *	US-PATENT-CLASS-313-250	c 31	N76-31365 *
US-PATENT-CLASS-308-35	c 15	N73-32359 *	US-PATENT-CLASS-310-4	c 09	N71-28421 *	US-PATENT-CLASS-313-271	c 25	N71-20747 *
US-PATENT-CLASS-308-5R	c 37	N77-28486 *	US-PATENT-CLASS-310-4	c 09	N72-25260 *	US-PATENT-CLASS-313-278	c 33	N87-28832 *
US-PATENT-CLASS-308-5R	c 37	N79-10418 *	US-PATENT-CLASS-310-4	c 09	N72-27228 *	US-PATENT-CLASS-313-306	c 31	N76-31365 *
US-PATENT-CLASS-308-5	c 15	N71-10617 *	US-PATENT-CLASS-310-4	c 20	N75-24837 *	US-PATENT-CLASS-313-309	c 10	N72-27246 *
US-PATENT-CLASS-308-5	c 15	N72-11388 *	US-PATENT-CLASS-310-4	c 36	N75-30524 *	US-PATENT-CLASS-313-309	c 31	N76-31365 *
US-PATENT-CLASS-308-5	c 15	N72-17451 *	US-PATENT-CLASS-310-4	c 44	N76-16612 *	US-PATENT-CLASS-313-311	c 73	N77-18891 *
US-PATENT-CLASS-308-72	c 37	N76-15461 *	US-PATENT-CLASS-310-51	c 15	N71-27169 *	US-PATENT-CLASS-313-32	c 33	N74-12913 *
US-PATENT-CLASS-308-72	c 37	N77-32500 *	US-PATENT-CLASS-310-52	c 20	N75-24837 *	US-PATENT-CLASS-313-32	c 33	N77-21315 *
US-PATENT-CLASS-308-72	c 37	N79-11404 *	US-PATENT-CLASS-310-54	c 09	N71-20446 *	US-PATENT-CLASS-313-336	c 10	N72-27246 *
US-PATENT-CLASS-308-73	c 37	N74-21061 *	US-PATENT-CLASS-310-5	c 03	N70-35408 *	US-PATENT-CLASS-313-338	c 31	N76-31365 *
US-PATENT-CLASS-308-73	c 37	N75-30562 *	US-PATENT-CLASS-310-68B	c 35	N84-28017 *	US-PATENT-CLASS-313-348	c 35	N82-24471 *
US-PATENT-CLASS-308-73	c 37	N76-15461 *	US-PATENT-CLASS-310-68	c 15	N72-25456 *	US-PATENT-CLASS-313-351	c 10	N72-27246 *
US-PATENT-CLASS-308-73	c 37	N77-28486 *	US-PATENT-CLASS-310-77	c 37	N85-30333 *	US-PATENT-CLASS-313-351	c 70	N84-28565 *
US-PATENT-CLASS-308-78	c 24	N79-17916 *	US-PATENT-CLASS-310-8.2	c 35	N76-15432 *	US-PATENT-CLASS-313-352	c 09	N71-22987 *
US-PATENT-CLASS-308-87R	c 24	N79-17916 *	US-PATENT-CLASS-310-8.5	c 14	N71-22993 *	US-PATENT-CLASS-313-355	c 28	N73-27699 *
US-PATENT-CLASS-308-9	c 15	N70-34664 *	US-PATENT-CLASS-310-800	c 76	N83-34796 *	US-PATENT-CLASS-313-356	c 14	N72-29464 *
US-PATENT-CLASS-308-9	c 15	N70-38620 *	US-PATENT-CLASS-310-80	c 15	N72-25456 *	US-PATENT-CLASS-313-359.1	c 72	N87-21660 *
US-PATENT-CLASS-308-9	c 15	N70-39896 *	US-PATENT-CLASS-310-82	c 33	N79-20314 *	US-PATENT-CLASS-313-35	c 34	N79-20336 *
US-PATENT-CLASS-308-9	c 15	N71-20739 *	US-PATENT-CLASS-310-83	c 15	N72-25456 *	US-PATENT-CLASS-313-360	c 20	N77-20162 *
US-PATENT-CLASS-308-9	c 14	N71-26627 *	US-PATENT-CLASS-310-9.1	c 15	N71-21311 *	US-PATENT-CLASS-313-361.1	c 72	N87-21660 *
US-PATENT-CLASS-308-9	c 15	N72-17451 *	US-PATENT-CLASS-310-90.5	c 37	N87-17038 *	US-PATENT-CLASS-313-361	c 20	N77-10148 *
US-PATENT-CLASS-308-9	c 15	N73-32359 *	US-PATENT-CLASS-310-93	c 15	N71-17652 *	US-PATENT-CLASS-313-362.1	c 72	N77-21660 *
US-PATENT-CLASS-308-9	c 37	N76-15461 *	US-PATENT-CLASS-310-93	c 37	N85-30333 *	US-PATENT-CLASS-313-362	c 72	N80-27163 *
US-PATENT-CLASS-308-9	c 37	N77-28486 *	US-PATENT-CLASS-311-37	c 35	N75-29380 *	US-PATENT-CLASS-313-362	c 72	N80-33186 *
US-PATENT-CLASS-308-9	c 37	N79-10418 *	US-PATENT-CLASS-312-196	c 54	N88-24163 *	US-PATENT-CLASS-313-363	c 72	N80-27163 *
US-PATENT-CLASS-31-35	c 31	N85-21404 *	US-PATENT-CLASS-312-1	c 05	N71-23080 *	US-PATENT-CLASS-313-442	c 74	N78-18905 *
US-PATENT-CLASS-310-101	c 15	N71-24696 *	US-PATENT-CLASS-312-1	c 05	N73-20137 *	US-PATENT-CLASS-313-44	c 15	N69-24319 *
US-PATENT-CLASS-310-10	c 03	N69-39890 *	US-PATENT-CLASS-312-1	c 37	N74-20063 *	US-PATENT-CLASS-313-505	c 33	N87-28831 *
US-PATENT-CLASS-310-10	c 09	N71-23443 *	US-PATENT-CLASS-312-208	c 54	N88-24163 *	US-PATENT-CLASS-313-506	c 33	N87-28831 *
US-PATENT-CLASS-310-10	c 09	N71-24904 *	US-PATENT-CLASS-312-209	c 37	N74-18123 *	US-PATENT-CLASS-313-509	c 33	N87-28831 *
US-PATENT-CLASS-310-10	c 09	N72-25255 *	US-PATENT-CLASS-312-257	c 31	N72-22874 *	US-PATENT-CLASS-313-60	c 33	N77-22386 *
US-PATENT-CLASS-310-10	c 20	N75-24837 *	US-PATENT-CLASS-312-296	c 09	N71-18600 *	US-PATENT-CLASS-313-61S	c 73	N74-26767 *
US-PATENT-CLASS-310-111	c 33	N77-26387 *	US-PATENT-CLASS-312-300	c 54	N88-24163 *	US-PATENT-CLASS-313-61S	c 37	N78-13436 *
US-PATENT-CLASS-310-11	c 25	N69-21929 *	US-PATENT-CLASS-312-319	c 37	N79-33467 *	US-PATENT-CLASS-313-63	c 28	N70-41576 *
US-PATENT-CLASS-310-11	c 03	N69-39893 *	US-PATENT-CLASS-312-7.2	c 54	N88-24163 *	US-PATENT-CLASS-313-63	c 09	N71-10618 *
US-PATENT-CLASS-310-11	c 03	N70-36803 *	US-PATENT-CLASS-313-DIG 8	c 28	N73-24783 *	US-PATENT-CLASS-313-63	c 28	N71-26781 *
US-PATENT-CLASS-310-11	c 14	N72-22439 *	US-PATENT-CLASS-313-104	c 14	N73-32317 *	US-PATENT-CLASS-313-63	c 28	N73-24783 *
US-PATENT-CLASS-310-11	c 12	N72-25292 *	US-PATENT-CLASS-313-106	c 24	N83-10117 *	US-PATENT-CLASS-313-63	c 28	N73-27699 *
US-PATENT-CLASS-310-11	c 35	N74-21018 *	US-PATENT-CLASS-313-106	c 70	N84-28565 *	US-PATENT-CLASS-313-63	c 75	N75-13625 *
US-PATENT-CLASS-310-11	c 36	N75-32441 *	US-PATENT-CLASS-313-106	c 31	N86-32587 *	US-PATENT-CLASS-313-7	c 14	N71-18482 *
US-PATENT-CLASS-310-11	c 44	N83-28573 *	US-PATENT-CLASS-313-107	c 24	N83-10117 *	US-PATENT-CLASS-313-7	c 14	N73-32324 *
US-PATENT-CLASS-310-12	c 33	N82-24421 *	US-PATENT-CLASS-313-107	c 70	N84-28565 *	US-PATENT-CLASS-313-93	c 35	N74-26949 *
US-PATENT-CLASS-310-12	c 37	N83-32067 *	US-PATENT-CLASS-313-107	c 31	N86-32587 *	US-PATENT-CLASS-313-93	c 35	N82-24471 *
US-PATENT-CLASS-310-153	c 44	N78-24608 *	US-PATENT-CLASS-313-109.5	c 09	N71-33519 *	US-PATENT-CLASS-313-94	c 33	N76-31409 *
US-PATENT-CLASS-310-154	c 44	N78-24608 *	US-PATENT-CLASS-313-11.5	c 28	N70-39925 *	US-PATENT-CLASS-313-94	c 74	N78-18905 *
US-PATENT-CLASS-310-154	c 35	N84-28017 *	US-PATENT-CLASS-313-110	c 09	N71-12521 *	US-PATENT-CLASS-314-129	c 15	N69-24266 *
US-PATENT-CLASS-310-15	c 09	N72-25255 *	US-PATENT-CLASS-313-131A	c 33	N85-21491 *	US-PATENT-CLASS-315-DIG.2	c 16	N73-32391 *
US-PATENT-CLASS-310-15	c 44	N83-28574 *	US-PATENT-CLASS-313-146	c 33	N77-22386 *	US-PATENT-CLASS-315-101	c 16	N73-32391 *
US-PATENT-CLASS-310-15	c 33	N87-23904 *	US-PATENT-CLASS-313-153	c 33	N74-12913 *	US-PATENT-CLASS-315-108	c 09	N71-33519 *
US-PATENT-CLASS-310-168	c 09	N71-25999 *	US-PATENT-CLASS-313-156	c 25	N70-34661 *	US-PATENT-CLASS-315-108	c 33	N77-21316 *
US-PATENT-CLASS-310-168	c 33	N77-26387 *	US-PATENT-CLASS-313-156	c 72	N80-27163 *	US-PATENT-CLASS-315-108	c 36	N78-17366 *

US-PATENT-CLASS-315-10	c 33	N74-21850 *	US-PATENT-CLASS-315-349	c 09	N72-25250 *	US-PATENT-CLASS-317-246	c 33	N76-21390 *
US-PATENT-CLASS-315-10	c 33	N75-26244 *	US-PATENT-CLASS-315-356	c 16	N73-32391 *	US-PATENT-CLASS-317-246	c 35	N76-22509 *
US-PATENT-CLASS-315-110	c 33	N77-21316 *	US-PATENT-CLASS-315-358	c 25	N72-24753 *	US-PATENT-CLASS-317-247	c 14	N72-24477 *
US-PATENT-CLASS-315-111.2	c 75	N78-27913 *	US-PATENT-CLASS-315-367	c 33	N75-26244 *	US-PATENT-CLASS-317-258	c 09	N71-13522 *
US-PATENT-CLASS-315-111.31	c 33	N85-21491 *	US-PATENT-CLASS-315-369	c 33	N75-26244 *	US-PATENT-CLASS-317-258	c 33	N76-15373 *
US-PATENT-CLASS-315-111.3	c 20	N77-10148 *	US-PATENT-CLASS-315-36	c 10	N72-27246 *	US-PATENT-CLASS-317-261	c 26	N72-28761 *
US-PATENT-CLASS-315-111.3	c 20	N77-20162 *	US-PATENT-CLASS-315-387	c 33	N75-26244 *	US-PATENT-CLASS-317-261	c 33	N76-15373 *
US-PATENT-CLASS-315-111.41	c 72	N88-24253 *	US-PATENT-CLASS-315-39.3	c 33	N84-16452 *	US-PATENT-CLASS-317-31	c 09	N71-12526 *
US-PATENT-CLASS-315-111.6	c 75	N76-14931 *	US-PATENT-CLASS-315-39.3	c 33	N84-27974 *	US-PATENT-CLASS-317-31	c 10	N71-23543 *
US-PATENT-CLASS-315-111.6	c 20	N77-20162 *	US-PATENT-CLASS-315-39.3	c 33	N86-21742 *	US-PATENT-CLASS-317-31	c 33	N74-17929 *
US-PATENT-CLASS-315-111.71	c 72	N88-24253 *	US-PATENT-CLASS-315-3	c 33	N83-31952 *	US-PATENT-CLASS-317-31	c 33	N77-14333 *
US-PATENT-CLASS-315-111.81	c 33	N85-21491 *	US-PATENT-CLASS-315-4	c 33	N83-31952 *	US-PATENT-CLASS-317-33SC	c 33	N74-14956 *
US-PATENT-CLASS-315-111.81	c 33	N87-21234 *	US-PATENT-CLASS-315-5.35	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 10	N71-26531 *
US-PATENT-CLASS-315-111.81	c 72	N88-24253 *	US-PATENT-CLASS-315-5.35	c 33	N83-31952 *	US-PATENT-CLASS-317-33	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 25	N70-33267 *	US-PATENT-CLASS-315-5.38	c 09	N73-13208 *	US-PATENT-CLASS-317-33	c 10	N71-27366 *
US-PATENT-CLASS-315-111	c 25	N70-41628 *	US-PATENT-CLASS-315-5.38	c 33	N74-10195 *	US-PATENT-CLASS-317-33	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N71-15562 *	US-PATENT-CLASS-315-5.38	c 33	N82-24415 *	US-PATENT-CLASS-317-43	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 24	N71-16213 *	US-PATENT-CLASS-315-5.38	c 24	N83-10117 *	US-PATENT-CLASS-317-46	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N71-21693 *	US-PATENT-CLASS-315-5.38	c 33	N83-31952 *	US-PATENT-CLASS-317-47	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 28	N71-26781 *	US-PATENT-CLASS-315-5.38	c 70	N84-28565 *	US-PATENT-CLASS-317-48	c 33	N74-14956 *
US-PATENT-CLASS-315-111	c 25	N71-29184 *	US-PATENT-CLASS-315-5.38	c 37	N85-33489 *	US-PATENT-CLASS-317-54	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 09	N71-33519 *	US-PATENT-CLASS-315-5.38	c 31	N86-32587 *	US-PATENT-CLASS-317-60	c 09	N71-29008 *
US-PATENT-CLASS-315-111	c 25	N72-24753 *	US-PATENT-CLASS-315-5	c 33	N83-31952 *	US-PATENT-CLASS-317-9	c 09	N71-22796 *
US-PATENT-CLASS-315-111	c 25	N72-32688 *	US-PATENT-CLASS-317-DIG.3	c 10	N71-26334 *	US-PATENT-CLASS-317-9	c 09	N71-27001 *
US-PATENT-CLASS-315-111	c 14	N73-30391 *	US-PATENT-CLASS-317-DIG.6	c 10	N73-26228 *	US-PATENT-CLASS-318-107	c 44	N87-21410 *
US-PATENT-CLASS-315-111	c 75	N75-13625 *	US-PATENT-CLASS-317-100	c 10	N71-28783 *	US-PATENT-CLASS-318-116	c 71	N79-20827 *
US-PATENT-CLASS-315-111	c 33	N75-29318 *	US-PATENT-CLASS-317-100	c 10	N73-25243 *	US-PATENT-CLASS-318-116	c 71	N84-23223 *
US-PATENT-CLASS-315-111	c 37	N75-29426 *	US-PATENT-CLASS-317-101A	c 09	N72-33205 *	US-PATENT-CLASS-318-116	c 33	N87-28833 *
US-PATENT-CLASS-315-111	c 33	N74-21850 *	US-PATENT-CLASS-317-101A	c 23	N73-13660 *	US-PATENT-CLASS-318-135	c 33	N82-24421 *
US-PATENT-CLASS-315-12	c 33	N74-21850 *	US-PATENT-CLASS-317-101DH	c 15	N72-22486 *	US-PATENT-CLASS-318-137	c 33	N75-19524 *
US-PATENT-CLASS-315-135	c 09	N72-25250 *	US-PATENT-CLASS-317-101DH	c 10	N73-25243 *	US-PATENT-CLASS-318-138	c 09	N71-10677 *
US-PATENT-CLASS-315-145	c 33	N80-14330 *	US-PATENT-CLASS-317-101	c 09	N71-26133 *	US-PATENT-CLASS-318-138	c 14	N71-17585 *
US-PATENT-CLASS-315-151	c 14	N72-27411 *	US-PATENT-CLASS-317-117	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 10	N71-18772 *
US-PATENT-CLASS-315-153	c 14	N73-16483 *	US-PATENT-CLASS-317-120	c 15	N72-22486 *	US-PATENT-CLASS-318-138	c 09	N71-25999 *
US-PATENT-CLASS-315-153	c 74	N79-12890 *	US-PATENT-CLASS-317-122	c 15	N71-18701 *	US-PATENT-CLASS-318-138	c 33	N77-26386 *
US-PATENT-CLASS-315-156	c 14	N72-27411 *	US-PATENT-CLASS-317-123	c 09	N71-24892 *	US-PATENT-CLASS-318-138	c 33	N81-20352 *
US-PATENT-CLASS-315-158	c 14	N72-27411 *	US-PATENT-CLASS-317-140	c 09	N70-34502 *	US-PATENT-CLASS-318-138	c 33	N87-21233 *
US-PATENT-CLASS-315-160	c 09	N71-12540 *	US-PATENT-CLASS-317-148.5	c 10	N71-23271 *	US-PATENT-CLASS-318-15	c 37	N80-32716 *
US-PATENT-CLASS-315-169R	c 23	N73-13660 *	US-PATENT-CLASS-317-148.5	c 09	N71-24892 *	US-PATENT-CLASS-318-161	c 44	N87-21410 *
US-PATENT-CLASS-315-169R	c 36	N75-19652 *	US-PATENT-CLASS-317-153	c 10	N71-26334 *	US-PATENT-CLASS-318-167	c 33	N75-19524 *
US-PATENT-CLASS-315-169TV	c 23	N73-13660 *	US-PATENT-CLASS-317-155.5	c 09	N71-29008 *	US-PATENT-CLASS-318-176	c 33	N75-19524 *
US-PATENT-CLASS-315-172	c 33	N88-24862 *	US-PATENT-CLASS-317-157.5	c 15	N69-21472 *	US-PATENT-CLASS-318-183	c 33	N75-19524 *
US-PATENT-CLASS-315-173	c 33	N88-24862 *	US-PATENT-CLASS-317-158	c 15	N73-28516 *	US-PATENT-CLASS-318-20.105	c 08	N71-27057 *
US-PATENT-CLASS-315-176	c 33	N77-28385 *	US-PATENT-CLASS-317-158	c 26	N73-28710 *	US-PATENT-CLASS-318-200	c 33	N78-10376 *
US-PATENT-CLASS-315-18	c 32	N74-20813 *	US-PATENT-CLASS-317-158	c 15	N73-32361 *	US-PATENT-CLASS-318-227	c 07	N71-33613 *
US-PATENT-CLASS-315-18	c 33	N75-19517 *	US-PATENT-CLASS-317-16	c 09	N69-39897 *	US-PATENT-CLASS-318-227	c 33	N75-15874 *
US-PATENT-CLASS-315-200-R	c 33	N88-23942 *	US-PATENT-CLASS-317-16	c 33	N74-17929 *	US-PATENT-CLASS-318-227	c 33	N77-26386 *
US-PATENT-CLASS-315-208	c 33	N83-34189 *	US-PATENT-CLASS-317-20	c 33	N71-10429 *	US-PATENT-CLASS-318-227	c 33	N78-10376 *
US-PATENT-CLASS-315-209CD	c 37	N79-11405 *	US-PATENT-CLASS-317-20	c 10	N71-26531 *	US-PATENT-CLASS-318-22	c 15	N71-17694 *
US-PATENT-CLASS-315-209SC	c 37	N79-11405 *	US-PATENT-CLASS-317-230	c 09	N71-27232 *	US-PATENT-CLASS-318-230	c 07	N71-33613 *
US-PATENT-CLASS-315-211	c 33	N74-20859 *	US-PATENT-CLASS-317-230	c 26	N72-28761 *	US-PATENT-CLASS-318-230	c 10	N73-32145 *
US-PATENT-CLASS-315-22R	c 10	N72-31273 *	US-PATENT-CLASS-317-231	c 09	N71-27232 *	US-PATENT-CLASS-318-230	c 33	N75-15874 *
US-PATENT-CLASS-315-224	c 33	N83-34189 *	US-PATENT-CLASS-317-234A	c 15	N73-14469 *	US-PATENT-CLASS-318-230	c 33	N78-10376 *
US-PATENT-CLASS-315-225	c 33	N83-34189 *	US-PATENT-CLASS-317-234D	c 14	N73-31446 *	US-PATENT-CLASS-318-231	c 10	N73-32145 *
US-PATENT-CLASS-315-227-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234E	c 33	N74-12951 *	US-PATENT-CLASS-318-231	c 33	N75-15874 *
US-PATENT-CLASS-315-228	c 33	N74-20859 *	US-PATENT-CLASS-317-234F	c 33	N74-12951 *	US-PATENT-CLASS-318-254	c 09	N71-25999 *
US-PATENT-CLASS-315-22	c 10	N72-20225 *	US-PATENT-CLASS-317-234G	c 14	N72-31446 *	US-PATENT-CLASS-318-254	c 09	N73-32107 *
US-PATENT-CLASS-315-22	c 32	N74-20813 *	US-PATENT-CLASS-317-234G	c 15	N73-14469 *	US-PATENT-CLASS-318-254	c 33	N77-26386 *
US-PATENT-CLASS-315-22	c 33	N78-17293 *	US-PATENT-CLASS-317-234G	c 09	N73-27150 *	US-PATENT-CLASS-318-254	c 33	N81-20352 *
US-PATENT-CLASS-315-237	c 33	N83-34189 *	US-PATENT-CLASS-317-234J	c 26	N72-25679 *	US-PATENT-CLASS-318-254	c 33	N82-26569 *
US-PATENT-CLASS-315-241-R	c 33	N88-23942 *	US-PATENT-CLASS-317-234L	c 09	N73-27150 *	US-PATENT-CLASS-318-254	c 33	N87-21233 *
US-PATENT-CLASS-315-241R	c 37	N79-11405 *	US-PATENT-CLASS-317-234M	c 09	N73-27150 *	US-PATENT-CLASS-318-257	c 10	N71-18724 *
US-PATENT-CLASS-315-241R	c 33	N83-34189 *	US-PATENT-CLASS-317-234M	c 33	N74-12951 *	US-PATENT-CLASS-318-258	c 09	N71-26092 *
US-PATENT-CLASS-315-241	c 09	N71-13518 *	US-PATENT-CLASS-317-234N	c 09	N73-27150 *	US-PATENT-CLASS-318-260	c 09	N70-38712 *
US-PATENT-CLASS-315-248	c 09	N73-30181 *	US-PATENT-CLASS-317-234N	c 33	N74-12951 *	US-PATENT-CLASS-318-265	c 15	N71-24895 *
US-PATENT-CLASS-315-24	c 08	N71-20571 *	US-PATENT-CLASS-317-234R	c 09	N73-27150 *	US-PATENT-CLASS-318-267	c 37	N77-27400 *
US-PATENT-CLASS-315-254	c 33	N88-23942 *	US-PATENT-CLASS-317-234R	c 33	N74-12951 *	US-PATENT-CLASS-318-308	c 11	N72-20244 *
US-PATENT-CLASS-315-255	c 33	N88-23942 *	US-PATENT-CLASS-317-234V	c 26	N72-21701 *	US-PATENT-CLASS-318-314	c 10	N71-20448 *
US-PATENT-CLASS-315-258	c 16	N73-32391 *	US-PATENT-CLASS-317-234V	c 09	N73-15235 *	US-PATENT-CLASS-318-314	c 09	N75-24758 *
US-PATENT-CLASS-315-25	c 10	N72-20225 *	US-PATENT-CLASS-317-234	c 14	N69-23191 *	US-PATENT-CLASS-318-317	c 09	N71-28886 *
US-PATENT-CLASS-315-260	c 33	N80-14330 *	US-PATENT-CLASS-317-234	c 09	N69-27422 *	US-PATENT-CLASS-318-318	c 09	N71-24805 *
US-PATENT-CLASS-315-26	c 09	N71-23189 *	US-PATENT-CLASS-317-234	c 26	N71-18064 *	US-PATENT-CLASS-318-318	c 09	N75-24758 *
US-PATENT-CLASS-315-276	c 33	N88-23942 *	US-PATENT-CLASS-317-235AG	c 09	N73-15235 *	US-PATENT-CLASS-318-31	c 15	N71-28952 *
US-PATENT-CLASS-315-277	c 33	N88-23942 *	US-PATENT-CLASS-317-235AJ	c 26	N72-25679 *	US-PATENT-CLASS-318-327	c 11	N72-20244 *
US-PATENT-CLASS-315-297	c 14	N72-27411 *	US-PATENT-CLASS-317-235AJ	c 09	N72-32025 *	US-PATENT-CLASS-318-328	c 09	N73-32107 *
US-PATENT-CLASS-315-3.5	c 09	N73-13208 *	US-PATENT-CLASS-317-235AM	c 09	N73-19235 *	US-PATENT-CLASS-318-331	c 09	N71-28886 *
US-PATENT-CLASS-315-3.5	c 33	N79-10339 *	US-PATENT-CLASS-317-235A	c 26	N72-25679 *	US-PATENT-CLASS-318-341	c 10	N73-32145 *
US-PATENT-CLASS-315-3.5	c 33	N82-26568 *	US-PATENT-CLASS-317-235A	c 09	N72-32025 *	US-PATENT-CLASS-318-341	c 09	N75-24758 *
US-PATENT-CLASS-315-3.5	c 33	N84-16452 *	US-PATENT-CLASS-317-235H	c 35	N75-13213 *	US-PATENT-CLASS-318-345	c 09	N71-28886 *
US-PATENT-CLASS-315-3.5	c 37	N85-33489 *	US-PATENT-CLASS-317-235K	c 09	N73-15235 *	US-PATENT-CLASS-318-376	c 10	N71-16030 *
US-PATENT-CLASS-315-3.5	c 33	N86-21742 *	US-PATENT-CLASS-317-235M	c 14	N72-31446 *	US-PATENT-CLASS-318-376	c 11	N72-20244 *
US-PATENT-CLASS-315-3.6	c 33	N79-10339 *	US-PATENT-CLASS-317-235N	c 09	N73-19235 *	US-PATENT-CLASS-318-382	c 15	N71-24695 *
US-PATENT-CLASS-315-3.6	c 33	N82-24415 *	US-PATENT-CLASS-317-235N	c 35	N74-15090 *	US-PATENT-CLASS-318-438	c 33	N84-22885 *
US-PATENT-CLASS-315-3.6	c 33	N82-26568 *	US-PATENT-CLASS-317-235R	c 26	N72-21701 *	US-PATENT-CLASS-318-439	c 33	N81-20352 *
US-PATENT-CLASS-315-3.6	c 33	N84-16452 *	US-PATENT-CLASS-317-235R	c 26	N72-25679 *	US-PATENT-CLASS-318-439	c 33	N87-21233 *
US-PATENT-CLASS-315-3.6	c 33	N84-27974 *	US-PATENT-CLASS-317-235R	c 14	N72-31446 *	US-PATENT-CLASS-318-468	c 37	N77-27400 *
US-PATENT-CLASS-315-3.6	c 33	N86-21742 *	US-PATENT-CLASS-317-235R	c 09	N73-19235 *	US-PATENT-CLASS-318-46	c 44	N85-21769 *
US-PATENT-CLASS-315-30R	c 10	N72-31273 *	US-PATENT-CLASS-317-235R	c 09	N73-32112 *	US-PATENT-CLASS-318-470	c 37	N77-27400 *
US-PATENT-CLASS-315-307	c 14	N72-27411 *	US-PATENT-CLASS-317-235T	c 09	N73-19235 *	US-PATENT-CLASS-318-489	c 02	N73-19004 *
US-PATENT-CLASS-315-30	c 33	N75-27250 *	US-PATENT-CLASS-317-235U	c 09	N73-19235 *	US-PATENT-CLASS-318-48	c 37	N86-27629 *
US-PATENT-CLASS-315-310	c 14	N72-27411 *	US-PATENT-CLASS-317-235WW	c 09	N73-32112 *	US-PATENT-CLASS-318-504	c 09	N71-28886 *
US-PATENT-CLASS-315-311	c 14	N72-27411 *	US-PATENT-CLASS-317-235	c 09	N69-24318 *	US-PATENT-CLASS-318-561	c 33	N82-18493 *
US-PATENT-CLASS-315-324	c 09	N73-30181 *	US-PATENT-CLASS-317-235	c 09	N72-33205 *	US-PATENT-CLASS-318-564	c 60	N82-29013 *
US-PATENT-CLASS-315-326	c 25	N72-24753 *	US-PATENT-CLASS-317-238	c 09	N71-27232 *	US-PATENT-CLASS-318-571	c 10	N71-27136 *
US-PATENT-CLASS-315-334	c 33	N80-14330 *	US-PATENT-CLASS-317-245	c 33	N79-21265 *	US-PATENT-CLASS-318-573	c 35	N79-14348 *
US-PATENT-CLASS-315-344	c 33	N77-21315 *	US-PATENT-CLASS-317-246	c 14	N69-21541 *	US-PATENT-CLASS-318-576	c 09	N72-21246 *

US-PATENT-CLASS-318-577	c 37	N86-21850 *	US-PATENT-CLASS-321-15	c 33	N75-19522 *	US-PATENT-CLASS-323-89C	c 09	N72-22196 *
US-PATENT-CLASS-318-580	c 08	N74-10942 *	US-PATENT-CLASS-321-18	c 09	N72-22203 *	US-PATENT-CLASS-323-8	c 10	N71-10578 *
US-PATENT-CLASS-318-580	c 04	N82-23231 *	US-PATENT-CLASS-321-18	c 09	N72-25251 *	US-PATENT-CLASS-323-901	c 33	N84-33663 *
US-PATENT-CLASS-318-584	c 08	N81-24106 *	US-PATENT-CLASS-321-18	c 09	N72-25252 *	US-PATENT-CLASS-323-93	c 33	N77-31404 *
US-PATENT-CLASS-318-584	c 08	N86-27288 *	US-PATENT-CLASS-321-18	c 33	N74-11049 *	US-PATENT-CLASS-324-5R	c 16	N73-13489 *
US-PATENT-CLASS-318-585	c 08	N79-23097 *	US-PATENT-CLASS-321-19	c 09	N72-22196 *	US-PATENT-CLASS-324-5	c 14	N71-20428 *
US-PATENT-CLASS-318-587	c 35	N84-33769 *	US-PATENT-CLASS-321-19	c 09	N72-25252 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-19520 *
US-PATENT-CLASS-318-594	c 35	N79-14348 *	US-PATENT-CLASS-321-19	c 33	N77-10428 *	US-PATENT-CLASS-324-DIG.1	c 33	N75-25041 *
US-PATENT-CLASS-318-599	c 10	N71-24861 *	US-PATENT-CLASS-321-25	c 09	N72-22196 *	US-PATENT-CLASS-324-0.5	c 14	N71-26137 *
US-PATENT-CLASS-318-602	c 33	N74-29556 *	US-PATENT-CLASS-321-2	c 03	N69-21330 *	US-PATENT-CLASS-324-0.5	c 14	N71-26266 *
US-PATENT-CLASS-318-603	c 33	N74-29556 *	US-PATENT-CLASS-321-2	c 03	N69-25146 *	US-PATENT-CLASS-324-0.5	c 36	N79-14362 *
US-PATENT-CLASS-318-605	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 03	N71-12255 *	US-PATENT-CLASS-324-102	c 09	N72-11225 *
US-PATENT-CLASS-318-608	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N71-23188 *	US-PATENT-CLASS-324-102	c 33	N74-17930 *
US-PATENT-CLASS-318-611	c 37	N85-30333 *	US-PATENT-CLASS-321-2	c 03	N71-23239 *	US-PATENT-CLASS-324-102	c 33	N75-19521 *
US-PATENT-CLASS-318-616	c 08	N79-23097 *	US-PATENT-CLASS-321-2	c 10	N71-26085 *	US-PATENT-CLASS-324-102	c 33	N79-11315 *
US-PATENT-CLASS-318-620	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22196 *	US-PATENT-CLASS-324-102	c 33	N79-14305 *
US-PATENT-CLASS-318-621	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 09	N72-22203 *	US-PATENT-CLASS-324-103	c 10	N71-27338 *
US-PATENT-CLASS-318-622	c 33	N82-18493 *	US-PATENT-CLASS-321-2	c 03	N72-23048 *	US-PATENT-CLASS-324-106	c 14	N70-38602 *
US-PATENT-CLASS-318-628	c 08	N74-10942 *	US-PATENT-CLASS-321-2	c 09	N72-25249 *	US-PATENT-CLASS-324-106	c 08	N71-29138 *
US-PATENT-CLASS-318-632	c 37	N86-27629 *	US-PATENT-CLASS-321-2	c 09	N72-25251 *	US-PATENT-CLASS-324-107	c 10	N71-27338 *
US-PATENT-CLASS-318-636	c 31	N86-29055 *	US-PATENT-CLASS-321-2	c 09	N72-25252 *	US-PATENT-CLASS-324-112	c 33	N79-14305 *
US-PATENT-CLASS-318-640	c 33	N75-13139 *	US-PATENT-CLASS-321-2	c 09	N72-25253 *	US-PATENT-CLASS-324-113	c 09	N70-14655 *
US-PATENT-CLASS-318-640	c 54	N75-27758 *	US-PATENT-CLASS-321-2	c 09	N72-25254 *	US-PATENT-CLASS-324-113	c 33	N75-19521 *
US-PATENT-CLASS-318-640	c 35	N79-14348 *	US-PATENT-CLASS-321-2	c 33	N74-11049 *	US-PATENT-CLASS-324-113	c 33	N79-11315 *
US-PATENT-CLASS-318-640	c 37	N81-27519 *	US-PATENT-CLASS-321-2	c 33	N77-10428 *	US-PATENT-CLASS-324-113	c 33	N79-14305 *
US-PATENT-CLASS-318-640	c 08	N86-27288 *	US-PATENT-CLASS-321-45C	c 10	N73-26228 *	US-PATENT-CLASS-324-115	c 14	N71-26244 *
US-PATENT-CLASS-318-649	c 33	N75-13139 *	US-PATENT-CLASS-321-45ER	c 09	N72-25252 *	US-PATENT-CLASS-324-115	c 10	N72-20222 *
US-PATENT-CLASS-318-653	c 10	N71-27136 *	US-PATENT-CLASS-321-45R	c 09	N72-25252 *	US-PATENT-CLASS-324-117	c 14	N71-23037 *
US-PATENT-CLASS-318-661	c 31	N86-29055 *	US-PATENT-CLASS-321-45R	c 09	N72-25254 *	US-PATENT-CLASS-324-117	c 33	N89-29681 *
US-PATENT-CLASS-318-663	c 37	N81-33483 *	US-PATENT-CLASS-321-45R	c 33	N74-22864 *	US-PATENT-CLASS-324-118	c 33	N74-17930 *
US-PATENT-CLASS-318-663	c 37	N86-27629 *	US-PATENT-CLASS-321-45S	c 33	N74-11049 *	US-PATENT-CLASS-324-119	c 09	N72-11225 *
US-PATENT-CLASS-318-664	c 33	N74-29556 *	US-PATENT-CLASS-321-45	c 09	N71-24800 *	US-PATENT-CLASS-324-120	c 14	N71-19431 *
US-PATENT-CLASS-318-675	c 33	N75-13139 *	US-PATENT-CLASS-321-45	c 09	N72-22203 *	US-PATENT-CLASS-324-120	c 09	N71-23021 *
US-PATENT-CLASS-318-675	c 37	N77-27400 *	US-PATENT-CLASS-321-47	c 09	N71-33109 *	US-PATENT-CLASS-324-123C	c 33	N79-22373 *
US-PATENT-CLASS-318-685	c 33	N83-35227 *	US-PATENT-CLASS-321-47	c 09	N72-25253 *	US-PATENT-CLASS-324-123R	c 09	N72-11225 *
US-PATENT-CLASS-318-729	c 33	N83-34190 *	US-PATENT-CLASS-321-48	c 12	N71-20896 *	US-PATENT-CLASS-324-127	c 33	N79-18193 *
US-PATENT-CLASS-318-729	c 33	N84-14424 *	US-PATENT-CLASS-321-5	c 08	N71-18752 *	US-PATENT-CLASS-324-127	c 33	N89-29681 *
US-PATENT-CLASS-318-729	c 33	N84-22885 *	US-PATENT-CLASS-321-60	c 14	N71-23174 *	US-PATENT-CLASS-324-130	c 35	N78-28411 *
US-PATENT-CLASS-318-729	c 33	N84-22886 *	US-PATENT-CLASS-321-61	c 09	N71-27364 *	US-PATENT-CLASS-324-132	c 09	N71-13530 *
US-PATENT-CLASS-318-729	c 33	N84-27975 *	US-PATENT-CLASS-321-64	c 09	N71-27364 *	US-PATENT-CLASS-324-132	c 10	N72-20222 *
US-PATENT-CLASS-318-729	c 33	N84-33661 *	US-PATENT-CLASS-321-69	c 10	N71-26414 *	US-PATENT-CLASS-324-133	c 10	N71-27338 *
US-PATENT-CLASS-318-729	c 44	N85-21769 *	US-PATENT-CLASS-321-8R	c 35	N74-18090 *	US-PATENT-CLASS-324-133	c 33	N79-10337 *
US-PATENT-CLASS-318-729	c 33	N85-22877 *	US-PATENT-CLASS-321-9	c 10	N71-25139 *	US-PATENT-CLASS-324-133	c 33	N79-11315 *
US-PATENT-CLASS-318-798	c 33	N83-34190 *	US-PATENT-CLASS-322-2R	c 07	N83-20944 *	US-PATENT-CLASS-324-133	c 33	N79-14305 *
US-PATENT-CLASS-318-798	c 33	N83-35227 *	US-PATENT-CLASS-322-25	c 33	N84-33660 *	US-PATENT-CLASS-324-133	c 33	N79-18193 *
US-PATENT-CLASS-318-798	c 33	N84-14424 *	US-PATENT-CLASS-322-29	c 33	N83-28319 *	US-PATENT-CLASS-324-158-D	c 33	N87-22894 *
US-PATENT-CLASS-318-798	c 33	N84-22885 *	US-PATENT-CLASS-322-29	c 33	N84-33660 *	US-PATENT-CLASS-324-158-R	c 33	N87-22894 *
US-PATENT-CLASS-318-799	c 33	N81-27395 *	US-PATENT-CLASS-322-2	c 03	N72-23048 *	US-PATENT-CLASS-324-158D	c 15	N72-25457 *
US-PATENT-CLASS-318-799	c 33	N84-16455 *	US-PATENT-CLASS-322-32	c 09	N71-27364 *	US-PATENT-CLASS-324-158D	c 76	N76-20994 *
US-PATENT-CLASS-318-800	c 33	N83-31953 *	US-PATENT-CLASS-322-35	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 44	N80-18551 *
US-PATENT-CLASS-318-802	c 33	N84-33661 *	US-PATENT-CLASS-322-47	c 33	N83-28319 *	US-PATENT-CLASS-324-158D	c 76	N84-35112 *
US-PATENT-CLASS-318-803	c 33	N83-10345 *	US-PATENT-CLASS-322-47	c 33	N84-33660 *	US-PATENT-CLASS-324-158D	c 76	N85-30923 *
US-PATENT-CLASS-318-803	c 33	N83-31953 *	US-PATENT-CLASS-322-95	c 33	N83-28319 *	US-PATENT-CLASS-324-158R	c 76	N76-20994 *
US-PATENT-CLASS-318-805	c 33	N84-22885 *	US-PATENT-CLASS-322-95	c 33	N84-33660 *	US-PATENT-CLASS-324-158R	c 33	N85-30187 *
US-PATENT-CLASS-318-806	c 33	N82-26569 *	US-PATENT-CLASS-322-96	c 33	N77-26387 *	US-PATENT-CLASS-324-158T	c 15	N72-25457 *
US-PATENT-CLASS-318-806	c 33	N83-34190 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-21243 *	US-PATENT-CLASS-324-158T	c 35	N75-12270 *
US-PATENT-CLASS-318-806	c 33	N83-35227 *	US-PATENT-CLASS-323-DIG.1	c 09	N72-25249 *	US-PATENT-CLASS-324-158T	c 76	N76-20994 *
US-PATENT-CLASS-318-806	c 33	N84-14424 *	US-PATENT-CLASS-323-DIG.1	c 33	N74-11049 *	US-PATENT-CLASS-324-158T	c 33	N80-14332 *
US-PATENT-CLASS-318-809	c 33	N83-31953 *	US-PATENT-CLASS-323-106	c 33	N77-10428 *	US-PATENT-CLASS-324-158T	c 76	N84-35112 *
US-PATENT-CLASS-318-809	c 33	N84-27975 *	US-PATENT-CLASS-323-122	c 33	N74-22885 *	US-PATENT-CLASS-324-158	c 09	N69-21926 *
US-PATENT-CLASS-318-810	c 33	N81-27395 *	US-PATENT-CLASS-323-122	c 33	N74-22885 *	US-PATENT-CLASS-324-163	c 35	N77-30436 *
US-PATENT-CLASS-318-810	c 33	N84-22885 *	US-PATENT-CLASS-323-128	c 33	N74-22885 *	US-PATENT-CLASS-324-165	c 35	N77-30436 *
US-PATENT-CLASS-318-812	c 33	N82-26569 *	US-PATENT-CLASS-323-15	c 20	N79-20179 *	US-PATENT-CLASS-324-173	c 35	N78-32396 *
US-PATENT-CLASS-318-812	c 33	N84-22886 *	US-PATENT-CLASS-323-15	c 44	N80-14472 *	US-PATENT-CLASS-324-174	c 35	N77-30436 *
US-PATENT-CLASS-318-812	c 33	N85-22877 *	US-PATENT-CLASS-323-17	c 09	N72-25249 *	US-PATENT-CLASS-324-181	c 09	N71-24717 *
US-PATENT-CLASS-318-830	c 33	N82-26569 *	US-PATENT-CLASS-323-17	c 33	N77-10428 *	US-PATENT-CLASS-324-186	c 09	N72-25257 *
US-PATENT-CLASS-318-8	c 37	N86-27629 *	US-PATENT-CLASS-323-18	c 33	N78-17295 *	US-PATENT-CLASS-324-186	c 52	N74-12778 *
US-PATENT-CLASS-32-28	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 08	N72-31226 *	US-PATENT-CLASS-324-20R	c 09	N72-23172 *
US-PATENT-CLASS-32-58	c 05	N73-27062 *	US-PATENT-CLASS-323-19	c 33	N78-17296 *	US-PATENT-CLASS-324-20R	c 44	N79-12541 *
US-PATENT-CLASS-320-13	c 03	N71-29129 *	US-PATENT-CLASS-323-19	c 44	N80-14472 *	US-PATENT-CLASS-324-207	c 35	N78-32396 *
US-PATENT-CLASS-320-13	c 44	N78-25531 *	US-PATENT-CLASS-323-20	c 14	N71-27407 *	US-PATENT-CLASS-324-226	c 35	N86-32698 *
US-PATENT-CLASS-320-15	c 44	N78-14625 *	US-PATENT-CLASS-323-20	c 20	N79-20179 *	US-PATENT-CLASS-324-22	c 44	N79-12541 *
US-PATENT-CLASS-320-15	c 44	N78-25531 *	US-PATENT-CLASS-323-22T	c 09	N72-21243 *	US-PATENT-CLASS-324-238	c 35	N86-32698 *
US-PATENT-CLASS-320-17	c 03	N71-24605 *	US-PATENT-CLASS-323-22T	c 09	N72-25249 *	US-PATENT-CLASS-324-240	c 35	N86-32698 *
US-PATENT-CLASS-320-18	c 44	N78-14625 *	US-PATENT-CLASS-323-22T	c 33	N77-10428 *	US-PATENT-CLASS-324-249	c 35	N78-32397 *
US-PATENT-CLASS-320-21	c 44	N76-18643 *	US-PATENT-CLASS-323-22T	c 33	N79-23345 *	US-PATENT-CLASS-324-250	c 35	N84-12444 *
US-PATENT-CLASS-320-22	c 44	N76-18643 *	US-PATENT-CLASS-323-22	c 09	N71-21449 *	US-PATENT-CLASS-324-262	c 35	N84-22928 *
US-PATENT-CLASS-320-23	c 03	N71-19438 *	US-PATENT-CLASS-323-22	c 09	N71-23316 *	US-PATENT-CLASS-324-262	c 35	N86-32698 *
US-PATENT-CLASS-320-2	c 44	N77-14581 *	US-PATENT-CLASS-323-23	c 33	N77-10428 *	US-PATENT-CLASS-324-29.5	c 03	N72-25020 *
US-PATENT-CLASS-320-32	c 44	N78-25531 *	US-PATENT-CLASS-323-243	c 33	N84-16455 *	US-PATENT-CLASS-324-29.5	c 14	N73-30388 *
US-PATENT-CLASS-320-39	c 03	N71-24719 *	US-PATENT-CLASS-323-246	c 33	N84-16455 *	US-PATENT-CLASS-324-29.5	c 44	N74-27519 *
US-PATENT-CLASS-320-39	c 44	N78-25531 *	US-PATENT-CLASS-323-269	c 33	N83-27126 *	US-PATENT-CLASS-324-30B	c 33	N76-19339 *
US-PATENT-CLASS-320-40	c 44	N78-14625 *	US-PATENT-CLASS-323-300	c 33	N84-27975 *	US-PATENT-CLASS-324-30R	c 14	N73-20478 *
US-PATENT-CLASS-320-48	c 03	N72-25020 *	US-PATENT-CLASS-323-303	c 33	N83-27126 *	US-PATENT-CLASS-324-32	c 14	N71-16014 *
US-PATENT-CLASS-320-53	c 33	N78-17296 *	US-PATENT-CLASS-323-350	c 33	N83-27126 *	US-PATENT-CLASS-324-32	c 33	N75-18477 *
US-PATENT-CLASS-320-6	c 44	N78-14625 *	US-PATENT-CLASS-323-354	c 33	N90-19492 *	US-PATENT-CLASS-324-32	c 33	N75-19522 *
US-PATENT-CLASS-320-9	c 44	N78-25531 *	US-PATENT-CLASS-323-38	c 09	N72-21243 *	US-PATENT-CLASS-324-32	c 35	N78-28411 *
US-PATENT-CLASS-321-1.5	c 09	N73-32109 *	US-PATENT-CLASS-323-44F	c 33	N79-17133 *	US-PATENT-CLASS-324-33	c 25	N69-39884 *
US-PATENT-CLASS-321-10	c 09	N72-17154 *	US-PATENT-CLASS-323-48	c 09	N71-27053 *	US-PATENT-CLASS-324-33	c 14	N70-35666 *
US-PATENT-CLASS-321-11	c 09	N69-39984 *	US-PATENT-CLASS-323-48	c 09	N72-25262 *	US-PATENT-CLASS-324-33	c 24	N71-20518 *
US-PATENT-CLASS-321-11	c 09	N72-25252 *	US-PATENT-CLASS-323-4	c 33	N78-17294 *	US-PATENT-CLASS-324-33	c 14	N71-21090 *
US-PATENT-CLASS-321-11	c 10	N73-26228 *	US-PATENT-CLASS-323-56	c 10	N71-22961 *	US-PATENT-CLASS-324-33	c 14	N71-27090 *
US-PATENT-CLASS-321-12	c 10	N71-27366 *	US-PATENT-CLASS-323-56	c 09	N71-24893 *	US-PATENT-CLASS-324-34FL	c 35	N74-21018 *
US-PATENT-CLASS-321-13	c 33	N77-14333 *	US-PATENT-CLASS-323-56	c 09	N72-22196 *	US-PATENT-CLASS-324-34R	c 26	N76-18257 *
US-PATENT-CLASS-321-14	c 09	N72-22196 *	US-PATENT-CLASS-323-60	c 09	N71-27053 *	US-PATENT-CLASS-324-34	c 25	N71-16073 *
US-PATENT-CLASS-321-15	c 09	N72-22203 *	US-PATENT-CLASS-323-82	c 09	N72-25262 *	US-PATENT-CLASS-324-404	c 44	N80-18551 *

US-PATENT-CLASS-324-40	c 38	N74-15395 *	US-PATENT-CLASS-324-77H	c 35	N75-21582 *	US-PATENT-CLASS-325-372	c 32	N76-14321 *
US-PATENT-CLASS-324-41	c 10	N72-28240	US-PATENT-CLASS-324-77K	c 35	N79-10391	US-PATENT-CLASS-325-373	c 07	N72-33146 *
US-PATENT-CLASS-324-427	c 35	N85-21596 *	US-PATENT-CLASS-324-77R	c 10	N73-25240 *	US-PATENT-CLASS-325-38B	c 35	N74-17885 *
US-PATENT-CLASS-324-43R	c 35	N66-16390	US-PATENT-CLASS-324-77R	c 47	N82-24779 *	US-PATENT-CLASS-325-38	c 07	N72-20140
US-PATENT-CLASS-324-43	c 14	N69-27423 *	US-PATENT-CLASS-324-77	c 09	N71-10659	US-PATENT-CLASS-325-38	c 07	N72-25173 *
US-PATENT-CLASS-324-43	c 09	N70-40123 *	US-PATENT-CLASS-324-77	c 07	N71-24622	US-PATENT-CLASS-325-39	c 07	N72-11149 *
US-PATENT-CLASS-324-43	c 14	N71-15962 *	US-PATENT-CLASS-324-78-D	c 33	N89-14385 *	US-PATENT-CLASS-325-40	c 07	N73-26118 *
US-PATENT-CLASS-324-43	c 14	N71-26135 *	US-PATENT-CLASS-324-78-F	c 33	N89-14385 *	US-PATENT-CLASS-325-419	c 10	N73-16205 *
US-PATENT-CLASS-324-43	c 14	N71-27325	US-PATENT-CLASS-324-78D	c 09	N72-25257	US-PATENT-CLASS-325-419	c 07	N73-28012 *
US-PATENT-CLASS-324-457	c 72	N84-28575 *	US-PATENT-CLASS-324-78D	c 52	N74-12778 *	US-PATENT-CLASS-325-419	c 32	N74-20810 *
US-PATENT-CLASS-324-466	c 33	N83-31954 *	US-PATENT-CLASS-324-78D	c 32	N90-17005 *	US-PATENT-CLASS-325-419	c 32	N74-20811 *
US-PATENT-CLASS-324-51	c 33	N80-26599 *	US-PATENT-CLASS-324-78E	c 14	N73-24473 *	US-PATENT-CLASS-325-419	c 32	N80-18253 *
US-PATENT-CLASS-324-51	c 33	N81-26359 *	US-PATENT-CLASS-324-78J	c 10	N73-25240 *	US-PATENT-CLASS-325-41	c 10	N71-26577 *
US-PATENT-CLASS-324-51	c 33	N82-24420	US-PATENT-CLASS-324-78J	c 33	N75-19515	US-PATENT-CLASS-325-41	c 32	N77-12240 *
US-PATENT-CLASS-324-52	c 14	N72-17325	US-PATENT-CLASS-324-78Z	c 32	N90-17005 *	US-PATENT-CLASS-325-41	c 32	N79-10263 *
US-PATENT-CLASS-324-52	c 14	N73-28486 *	US-PATENT-CLASS-324-79D	c 14	N73-30386 *	US-PATENT-CLASS-325-420	c 07	N73-30113 *
US-PATENT-CLASS-324-52	c 33	N79-18193 *	US-PATENT-CLASS-324-79D	c 33	N76-16331 *	US-PATENT-CLASS-325-422	c 07	N73-30113 *
US-PATENT-CLASS-324-52	c 33	N82-24420 *	US-PATENT-CLASS-324-79R	c 14	N72-27408 *	US-PATENT-CLASS-325-423	c 32	N74-20809 *
US-PATENT-CLASS-324-54	c 33	N75-18477 *	US-PATENT-CLASS-324-79R	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 07	N71-11266 *
US-PATENT-CLASS-324-57DE	c 33	N78-25319 *	US-PATENT-CLASS-324-83A	c 10	N72-20224 *	US-PATENT-CLASS-325-42	c 32	N76-21366 *
US-PATENT-CLASS-324-57H	c 35	N77-32455	US-PATENT-CLASS-324-83A	c 33	N84-16454 *	US-PATENT-CLASS-325-42	c 32	N77-30308 *
US-PATENT-CLASS-324-57PS	c 35	N75-21582 *	US-PATENT-CLASS-324-83D	c 33	N79-10338 *	US-PATENT-CLASS-325-445	c 07	N72-20141 *
US-PATENT-CLASS-324-57R	c 15	N72-21464 *	US-PATENT-CLASS-324-83Q	c 35	N74-21017 *	US-PATENT-CLASS-325-446	c 09	N69-24324 *
US-PATENT-CLASS-324-57R	c 14	N73-30388 *	US-PATENT-CLASS-324-83Q	c 33	N75-26243 *	US-PATENT-CLASS-325-45	c 07	N73-25160 *
US-PATENT-CLASS-324-57R	c 35	N74-18090 *	US-PATENT-CLASS-324-83R	c 33	N84-16454 *	US-PATENT-CLASS-325-473	c 07	N71-33696 *
US-PATENT-CLASS-324-57R	c 33	N79-10338 *	US-PATENT-CLASS-324-85	c 10	N72-20224 *	US-PATENT-CLASS-325-473	c 10	N73-12244 *
US-PATENT-CLASS-324-57R	c 35	N79-14349 *	US-PATENT-CLASS-324-85	c 33	N79-10338 *	US-PATENT-CLASS-325-473	c 32	N77-30308 *
US-PATENT-CLASS-324-57SS	c 33	N78-25319 *	US-PATENT-CLASS-324-92	c 26	N72-25680 *	US-PATENT-CLASS-325-476	c 32	N77-10392 *
US-PATENT-CLASS-324-57	c 10	N71-16057 *	US-PATENT-CLASS-324-95	c 10	N71-12554 *	US-PATENT-CLASS-325-478	c 07	N71-33696 *
US-PATENT-CLASS-324-57	c 09	N71-20569	US-PATENT-CLASS-324-95	c 14	N73-30388 *	US-PATENT-CLASS-325-480	c 07	N71-33696 *
US-PATENT-CLASS-324-58.5A	c 33	N75-26245 *	US-PATENT-CLASS-324-96	c 26	N72-25680 *	US-PATENT-CLASS-325-480	c 10	N73-12244 *
US-PATENT-CLASS-324-58.5B	c 43	N78-10529 *	US-PATENT-CLASS-324-96	c 33	N79-10337 *	US-PATENT-CLASS-325-482	c 07	N71-33696 *
US-PATENT-CLASS-324-58.5C	c 33	N75-26245 *	US-PATENT-CLASS-324-99D	c 33	N79-22373 *	US-PATENT-CLASS-325-492	c 09	N72-17153 *
US-PATENT-CLASS-324-58.5	c 15	N71-17822 *	US-PATENT-CLASS-325-10	c 07	N72-12081 *	US-PATENT-CLASS-325-492	c 09	N72-22202 *
US-PATENT-CLASS-324-58.5	c 25	N71-20563 *	US-PATENT-CLASS-325-113	c 07	N71-24840 *	US-PATENT-CLASS-325-4	c 07	N71-16088 *
US-PATENT-CLASS-324-58.5	c 14	N71-26137 *	US-PATENT-CLASS-325-113	c 07	N73-25160 *	US-PATENT-CLASS-325-4	c 07	N71-19773 *
US-PATENT-CLASS-324-58.5	c 18	N71-27397 *	US-PATENT-CLASS-325-113	c 52	N74-26625 *	US-PATENT-CLASS-325-4	c 07	N71-24621 *
US-PATENT-CLASS-324-58A	c 33	N78-25319 *	US-PATENT-CLASS-325-114	c 07	N72-25171 *	US-PATENT-CLASS-325-4	c 07	N72-11149 *
US-PATENT-CLASS-324-59	c 35	N77-32455	US-PATENT-CLASS-325-114	c 03	N76-32140 *	US-PATENT-CLASS-325-4	c 07	N72-12080 *
US-PATENT-CLASS-324-5	c 14	N71-28991 *	US-PATENT-CLASS-325-115	c 03	N76-32140 *	US-PATENT-CLASS-325-4	c 07	N72-20140 *
US-PATENT-CLASS-324-60C	c 35	N75-12270 *	US-PATENT-CLASS-325-118	c 17	N78-17140 *	US-PATENT-CLASS-325-4	c 07	N72-25171 *
US-PATENT-CLASS-324-60C	c 76	N76-20994 *	US-PATENT-CLASS-325-12	c 07	N73-20174 *	US-PATENT-CLASS-325-4	c 07	N73-20174 *
US-PATENT-CLASS-324-60	c 33	N77-31404 *	US-PATENT-CLASS-325-139	c 07	N73-25160 *	US-PATENT-CLASS-325-4	c 15	N75-13007 *
US-PATENT-CLASS-324-61-R	c 35	N87-22953 *	US-PATENT-CLASS-325-13	c 07	N72-12081 *	US-PATENT-CLASS-325-4	c 32	N75-26195 *
US-PATENT-CLASS-324-61-R	c 35	N88-29149 *	US-PATENT-CLASS-325-141	c 07	N72-25173 *	US-PATENT-CLASS-325-4	c 32	N77-20289 *
US-PATENT-CLASS-324-61R	c 14	N72-24477 *	US-PATENT-CLASS-325-141	c 52	N74-26625 *	US-PATENT-CLASS-325-4	c 32	N79-11265 *
US-PATENT-CLASS-324-61R	c 35	N76-22509 *	US-PATENT-CLASS-325-143	c 05	N71-12342 *	US-PATENT-CLASS-325-4	c 32	N80-20448 *
US-PATENT-CLASS-324-61	c 14	N69-39785 *	US-PATENT-CLASS-325-145	c 32	N77-14292 *	US-PATENT-CLASS-325-51	c 07	N72-25173 *
US-PATENT-CLASS-324-61	c 14	N70-36618 *	US-PATENT-CLASS-325-148	c 32	N74-19790 *	US-PATENT-CLASS-325-55	c 07	N72-25173 *
US-PATENT-CLASS-324-61	c 14	N71-10797 *	US-PATENT-CLASS-325-14	c 17	N76-21250 *	US-PATENT-CLASS-325-58	c 07	N72-11149 *
US-PATENT-CLASS-324-61	c 18	N71-27397 *	US-PATENT-CLASS-325-14	c 32	N80-20448 *	US-PATENT-CLASS-325-58	c 07	N72-20140 *
US-PATENT-CLASS-324-61	c 14	N72-22442 *	US-PATENT-CLASS-325-151.11	c 08	N71-27057 *	US-PATENT-CLASS-325-58	c 07	N72-25173 *
US-PATENT-CLASS-324-62R	c 14	N73-30388 *	US-PATENT-CLASS-325-159	c 33	N78-32340 *	US-PATENT-CLASS-325-58	c 32	N78-15323 *
US-PATENT-CLASS-324-62	c 33	N80-32650 *	US-PATENT-CLASS-325-163	c 07	N71-23405 *	US-PATENT-CLASS-325-58	c 32	N79-20296 *
US-PATENT-CLASS-324-62	c 33	N90-19492 *	US-PATENT-CLASS-325-16	c 07	N71-27056 *	US-PATENT-CLASS-325-5	c 07	N73-20174 *
US-PATENT-CLASS-324-64	c 15	N72-21464 *	US-PATENT-CLASS-325-17	c 07	N73-20174 *	US-PATENT-CLASS-325-60	c 08	N71-19763 *
US-PATENT-CLASS-324-64	c 33	N80-32650 *	US-PATENT-CLASS-325-185	c 07	N71-28430 *	US-PATENT-CLASS-325-60	c 07	N73-16121 *
US-PATENT-CLASS-324-65-P	c 35	N85-34373 *	US-PATENT-CLASS-325-186	c 03	N76-32140 *	US-PATENT-CLASS-325-60	c 32	N75-24981 *
US-PATENT-CLASS-324-65P	c 14	N73-20478 *	US-PATENT-CLASS-325-187	c 33	N78-32340 *	US-PATENT-CLASS-325-61	c 07	N73-25160 *
US-PATENT-CLASS-324-65R	c 15	N72-23497 *	US-PATENT-CLASS-325-23	c 07	N71-27056 *	US-PATENT-CLASS-325-62	c 08	N72-25208 *
US-PATENT-CLASS-324-65R	c 33	N85-30187 *	US-PATENT-CLASS-325-29	c 09	N72-22202 *	US-PATENT-CLASS-325-62	c 44	N74-19870 *
US-PATENT-CLASS-324-65	c 14	N71-27186 *	US-PATENT-CLASS-325-302	c 07	N72-25173 *	US-PATENT-CLASS-325-63	c 10	N71-19467 *
US-PATENT-CLASS-324-66	c 05	N72-16015	US-PATENT-CLASS-325-304	c 32	N76-14321 *	US-PATENT-CLASS-325-63	c 07	N73-20174 *
US-PATENT-CLASS-324-70	c 14	N70-41332 *	US-PATENT-CLASS-325-305	c 07	N71-10775 *	US-PATENT-CLASS-325-63	c 32	N78-15323 *
US-PATENT-CLASS-324-70	c 14	N71-22990 *	US-PATENT-CLASS-325-305	c 10	N71-20841 *	US-PATENT-CLASS-325-63	c 32	N79-20296 *
US-PATENT-CLASS-324-70	c 10	N71-24863 *	US-PATENT-CLASS-325-305	c 07	N71-23098 *	US-PATENT-CLASS-325-64	c 07	N72-25173 *
US-PATENT-CLASS-324-71.3	c 72	N84-28575 *	US-PATENT-CLASS-325-305	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N70-41331 *
US-PATENT-CLASS-324-71.5	c 76	N85-30923 *	US-PATENT-CLASS-325-306	c 32	N76-14321 *	US-PATENT-CLASS-325-65	c 07	N70-41372 *
US-PATENT-CLASS-324-71CP	c 35	N76-22509 *	US-PATENT-CLASS-325-307	c 32	N80-18253 *	US-PATENT-CLASS-325-65	c 07	N71-11284 *
US-PATENT-CLASS-324-71CP	c 35	N82-11431 *	US-PATENT-CLASS-325-30	c 32	N74-26654 *	US-PATENT-CLASS-325-65	c 32	N77-30308 *
US-PATENT-CLASS-324-71R	c 09	N72-21246 *	US-PATENT-CLASS-325-30	c 32	N75-24981 *	US-PATENT-CLASS-325-66	c 17	N78-17140 *
US-PATENT-CLASS-324-71R	c 15	N72-21464 *	US-PATENT-CLASS-325-30	c 32	N77-30308 *	US-PATENT-CLASS-325-67	c 07	N71-26292 *
US-PATENT-CLASS-324-71	c 09	N71-24843 *	US-PATENT-CLASS-325-31	c 07	N71-20791 *	US-PATENT-CLASS-325-67	c 10	N73-25241 *
US-PATENT-CLASS-324-72.5	c 44	N74-27519 *	US-PATENT-CLASS-325-320	c 33	N74-12887 *	US-PATENT-CLASS-325-67	c 35	N75-21582 *
US-PATENT-CLASS-324-72.5	c 72	N84-28575 *	US-PATENT-CLASS-325-320	c 32	N74-20809 *	US-PATENT-CLASS-325-67	c 32	N79-11265 *
US-PATENT-CLASS-324-72	c 10	N71-19421 *	US-PATENT-CLASS-325-320	c 32	N74-20811 *	US-PATENT-CLASS-325-7	c 07	N73-20174 *
US-PATENT-CLASS-324-72	c 14	N71-23699 *	US-PATENT-CLASS-325-320	c 33	N74-27705 *	US-PATENT-CLASS-325-8	c 07	N73-20174 *
US-PATENT-CLASS-324-72	c 07	N73-20175 *	US-PATENT-CLASS-325-321	c 07	N72-20140 *	US-PATENT-CLASS-325-8	c 32	N80-20448 *
US-PATENT-CLASS-324-72	c 14	N73-32318 *	US-PATENT-CLASS-325-321	c 32	N74-20810 *	US-PATENT-CLASS-325-9	c 07	N73-20174 *
US-PATENT-CLASS-324-72	c 33	N74-27862 *	US-PATENT-CLASS-325-321	c 32	N76-16249 *	US-PATENT-CLASS-325-9	c 32	N80-20448 *
US-PATENT-CLASS-324-72	c 33	N75-26246 *	US-PATENT-CLASS-325-323	c 32	N77-10392 *	US-PATENT-CLASS-328-104	c 08	N72-22162 *
US-PATENT-CLASS-324-72	c 33	N77-10429 *	US-PATENT-CLASS-325-325	c 07	N71-24613 *	US-PATENT-CLASS-328-104	c 10	N73-13235 *
US-PATENT-CLASS-324-72	c 33	N79-10337 *	US-PATENT-CLASS-325-325	c 07	N72-25173 *	US-PATENT-CLASS-328-106	c 09	N72-22201 *
US-PATENT-CLASS-324-72	c 33	N79-14305 *	US-PATENT-CLASS-325-325	c 07	N73-13149 *	US-PATENT-CLASS-328-110	c 09	N71-12519 *
US-PATENT-CLASS-324-72	c 47	N82-24779 *	US-PATENT-CLASS-325-346	c 10	N73-16205 *	US-PATENT-CLASS-328-111	c 60	N77-12721 *
US-PATENT-CLASS-324-73AT	c 08	N72-22166 *	US-PATENT-CLASS-325-346	c 32	N74-30523 *	US-PATENT-CLASS-328-115	c 33	N75-18479 *
US-PATENT-CLASS-324-73AT	c 33	N81-26359 *	US-PATENT-CLASS-325-346	c 32	N77-24331 *	US-PATENT-CLASS-328-116	c 09	N69-39885 *
US-PATENT-CLASS-324-73R	c 33	N83-18996 *	US-PATENT-CLASS-325-347	c 07	N71-33696 *	US-PATENT-CLASS-328-120	c 09	N71-27016 *
US-PATENT-CLASS-324-73	c 14	N71-28991 *	US-PATENT-CLASS-325-348	c 07	N71-33696 *	US-PATENT-CLASS-328-123	c 60	N74-12888 *
US-PATENT-CLASS-324-74	c 35	N78-28411 *	US-PATENT-CLASS-325-349	c 32	N77-10392 *	US-PATENT-CLASS-328-129	c 14	N73-30386 *
US-PATENT-CLASS-324-77-E	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 07	N71-11267 *	US-PATENT-CLASS-328-133	c 09	N71-24596 *
US-PATENT-CLASS-324-77R	c 33	N89-14385 *	US-PATENT-CLASS-325-363	c 14	N71-26774 *	US-PATENT-CLASS-328-133	c 10	N72-20224 *
US-PATENT-CLASS-324-77B	c 60	N75-13539 *	US-PATENT-CLASS-325-363	c 14	N72-28437 *	US-PATENT-CLASS-328-133	c 33	N75-26243 *
US-PATENT-CLASS-324-77B	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 10	N73-25241 *	US-PATENT-CLASS-328-133	c 33	N77-13315 *
US-PATENT-CLASS-324-77C	c 32	N79-10262 *	US-PATENT-CLASS-325-363	c 35	N80-18359 *	US-PATENT-CLASS-328-133	c 33	N79-11313 *
US-PATENT-CLASS-324-77G	c 08	N72-20177 *	US-PATENT-CLASS-325-369	c 07	N71-27056 *	US-PATENT-CLASS-328-133	c 33	N84-16454 *

US-PATENT-CLASS-328-134	c 08	N71-18692 *	US-PATENT-CLASS-329-104	c 33	N74-12887 *	US-PATENT-CLASS-330-12	c 10	N72-33230 *
US-PATENT-CLASS-328-134	c 14	N73-30386 *	US-PATENT-CLASS-329-104	c 32	N77-24331 *	US-PATENT-CLASS-330-13	c 10	N71-26415 *
US-PATENT-CLASS-328-134	c 33	N76-16331 *	US-PATENT-CLASS-329-107	c 35	N81-19427 *	US-PATENT-CLASS-330-13	c 33	N75-30428 *
US-PATENT-CLASS-328-134	c 33	N81-17349 *	US-PATENT-CLASS-329-107	c 32	N87-21207 *	US-PATENT-CLASS-330-14	c 09	N70-35440 *
US-PATENT-CLASS-328-136	c 09	N72-25257 *	US-PATENT-CLASS-329-119	c 33	N77-21314 *	US-PATENT-CLASS-330-14	c 33	N77-14335 *
US-PATENT-CLASS-328-140	c 09	N72-25257 *	US-PATENT-CLASS-329-120	c 07	N73-30113 *	US-PATENT-CLASS-330-16	c 10	N71-33129 *
US-PATENT-CLASS-328-142	c 09	N72-21245 *	US-PATENT-CLASS-329-122	c 10	N71-19469 *	US-PATENT-CLASS-330-176	c 10	N72-17171 *
US-PATENT-CLASS-328-145	c 32	N76-14321 *	US-PATENT-CLASS-329-122	c 07	N73-28012 *	US-PATENT-CLASS-330-18	c 09	N72-17155 *
US-PATENT-CLASS-328-145	c 09	N72-23173 *	US-PATENT-CLASS-329-122	c 33	N74-12887 *	US-PATENT-CLASS-330-18	c 33	N75-30428 *
US-PATENT-CLASS-328-145	c 33	N78-32339 *	US-PATENT-CLASS-329-122	c 32	N74-20811 *	US-PATENT-CLASS-330-200	c 07	N71-28430 *
US-PATENT-CLASS-328-147	c 33	N87-21235 *	US-PATENT-CLASS-329-122	c 33	N77-14334 *	US-PATENT-CLASS-330-207A	c 33	N75-30429 *
US-PATENT-CLASS-328-150	c 33	N78-18308 *	US-PATENT-CLASS-329-122	c 32	N77-24331 *	US-PATENT-CLASS-330-20	c 09	N73-20232 *
US-PATENT-CLASS-328-151	c 09	N72-22200 *	US-PATENT-CLASS-329-122	c 32	N79-14267 *	US-PATENT-CLASS-330-22	c 09	N71-10798 *
US-PATENT-CLASS-328-151	c 33	N75-18479 *	US-PATENT-CLASS-329-122	c 33	N81-33405 *	US-PATENT-CLASS-330-22	c 09	N73-20232 *
US-PATENT-CLASS-328-151	c 33	N81-27396 *	US-PATENT-CLASS-329-124	c 33	N77-14334 *	US-PATENT-CLASS-330-24	c 10	N71-33129 *
US-PATENT-CLASS-328-154	c 08	N72-22162 *	US-PATENT-CLASS-329-124	c 33	N78-32338 *	US-PATENT-CLASS-330-24	c 33	N75-30429 *
US-PATENT-CLASS-328-154	c 10	N73-13235 *	US-PATENT-CLASS-329-124	c 32	N84-27952 *	US-PATENT-CLASS-330-258	c 33	N86-20670 *
US-PATENT-CLASS-328-154	c 33	N74-22814 *	US-PATENT-CLASS-329-126	c 33	N74-12887 *	US-PATENT-CLASS-330-261	c 33	N86-20670 *
US-PATENT-CLASS-328-155	c 10	N72-16172 *	US-PATENT-CLASS-329-140	c 07	N71-24583 *	US-PATENT-CLASS-330-26	c 10	N72-17172 *
US-PATENT-CLASS-328-155	c 09	N72-33204 *	US-PATENT-CLASS-329-145	c 07	N71-33696 *	US-PATENT-CLASS-330-27R	c 10	N72-31273 *
US-PATENT-CLASS-328-155	c 33	N74-17927 *	US-PATENT-CLASS-329-161	c 07	N72-20141 *	US-PATENT-CLASS-330-277	c 33	N84-22887 *
US-PATENT-CLASS-328-155	c 17	N76-22245 *	US-PATENT-CLASS-329-162	c 07	N72-20141 *	US-PATENT-CLASS-330-282	c 33	N83-36356 *
US-PATENT-CLASS-328-155	c 32	N88-29076 *	US-PATENT-CLASS-329-166	c 33	N75-19520 *	US-PATENT-CLASS-330-289	c 33	N83-34191 *
US-PATENT-CLASS-328-160	c 32	N74-19788 *	US-PATENT-CLASS-329-166	c 33	N75-25041 *	US-PATENT-CLASS-330-289	c 33	N84-16454 *
US-PATENT-CLASS-328-161	c 33	N77-17354 *	US-PATENT-CLASS-329-204	c 33	N75-19520 *	US-PATENT-CLASS-330-28	c 33	N74-21851 *
US-PATENT-CLASS-328-163	c 33	N79-10338 *	US-PATENT-CLASS-329-204	c 33	N75-25041 *	US-PATENT-CLASS-330-28	c 33	N77-14335 *
US-PATENT-CLASS-328-164	c 07	N71-33696 *	US-PATENT-CLASS-329-205	c 33	N77-21314 *	US-PATENT-CLASS-330-290	c 33	N82-24417 *
US-PATENT-CLASS-328-164	c 33	N87-21235 *	US-PATENT-CLASS-329-50	c 33	N74-17930 *	US-PATENT-CLASS-330-294	c 33	N82-24417 *
US-PATENT-CLASS-328-165	c 09	N71-24806 *	US-PATENT-CLASS-33.8UB	c 27	N81-15104 *	US-PATENT-CLASS-330-294	c 33	N84-22887 *
US-PATENT-CLASS-328-165	c 07	N71-33696 *	US-PATENT-CLASS-33.DIG.13	c 35	N75-12273 *	US-PATENT-CLASS-330-29	c 09	N69-24330 *
US-PATENT-CLASS-328-166	c 10	N72-20223 *	US-PATENT-CLASS-33.DIG.3	c 04	N84-14132 *	US-PATENT-CLASS-330-29	c 10	N72-28241 *
US-PATENT-CLASS-328-166	c 33	N82-29539 *	US-PATENT-CLASS-33-1G	c 37	N76-21554 *	US-PATENT-CLASS-330-2	c 09	N69-39986 *
US-PATENT-CLASS-328-167	c 10	N71-22986 *	US-PATENT-CLASS-33-1M	c 35	N74-32877 *	US-PATENT-CLASS-330-2	c 09	N72-25250 *
US-PATENT-CLASS-328-167	c 08	N71-29034 *	US-PATENT-CLASS-33-1N	c 43	N79-26439 *	US-PATENT-CLASS-330-2	c 33	N78-10375 *
US-PATENT-CLASS-328-167	c 10	N72-17171 *	US-PATENT-CLASS-33-1Q	c 43	N79-26439 *	US-PATENT-CLASS-330-2	c 33	N79-22373 *
US-PATENT-CLASS-328-167	c 09	N72-21245 *	US-PATENT-CLASS-33-1SA	c 14	N72-28436 *	US-PATENT-CLASS-330-30D	c 10	N72-20221 *
US-PATENT-CLASS-328-167	c 09	N73-20231 *	US-PATENT-CLASS-33-1SA	c 19	N74-21015 *	US-PATENT-CLASS-330-30D	c 09	N73-20232 *
US-PATENT-CLASS-328-167	c 08	N73-26175 *	US-PATENT-CLASS-33-125R	c 52	N80-27072 *	US-PATENT-CLASS-330-302	c 33	N85-29145 *
US-PATENT-CLASS-328-167	c 33	N82-24417 *	US-PATENT-CLASS-33-125	c 14	N72-11364 *	US-PATENT-CLASS-330-306	c 33	N82-24417 *
US-PATENT-CLASS-328-167	c 33	N85-29145 *	US-PATENT-CLASS-33-143C	c 52	N82-22875 *	US-PATENT-CLASS-330-306	c 33	N85-29145 *
US-PATENT-CLASS-328-168	c 32	N74-19788 *	US-PATENT-CLASS-33-147D	c 37	N88-14361 *	US-PATENT-CLASS-330-30	c 09	N71-19466 *
US-PATENT-CLASS-328-16	c 10	N72-20223 *	US-PATENT-CLASS-33-147	c 15	N71-19489 *	US-PATENT-CLASS-330-30	c 09	N71-19516 *
US-PATENT-CLASS-328-171	c 10	N71-24844 *	US-PATENT-CLASS-33-148D	c 35	N75-19615 *	US-PATENT-CLASS-330-30	c 09	N71-27016 *
US-PATENT-CLASS-328-172	c 32	N74-19788 *	US-PATENT-CLASS-33-149	c 14	N71-17657 *	US-PATENT-CLASS-330-310	c 33	N83-34191 *
US-PATENT-CLASS-328-172	c 33	N78-17294 *	US-PATENT-CLASS-33-15A	c 08	N72-11172 *	US-PATENT-CLASS-330-311	c 33	N86-20670 *
US-PATENT-CLASS-328-186	c 09	N72-17157 *	US-PATENT-CLASS-33-155R	c 33	N76-19338 *	US-PATENT-CLASS-330-31	c 10	N71-26331 *
US-PATENT-CLASS-328-187	c 10	N73-20254 *	US-PATENT-CLASS-33-169F	c 35	N84-28018 *	US-PATENT-CLASS-330-31	c 10	N72-17172 *
US-PATENT-CLASS-328-189	c 14	N72-27408 *	US-PATENT-CLASS-33-174B	c 37	N76-21554 *	US-PATENT-CLASS-330-35	c 09	N72-17156 *
US-PATENT-CLASS-328-190	c 33	N76-14371 *	US-PATENT-CLASS-33-174D	c 33	N76-19338 *	US-PATENT-CLASS-330-35	c 09	N73-20232 *
US-PATENT-CLASS-328-192	c 60	N81-15706 *	US-PATENT-CLASS-33-174L	c 43	N79-26439 *	US-PATENT-CLASS-330-35	c 33	N74-14939 *
US-PATENT-CLASS-328-1	c 23	N71-16099 *	US-PATENT-CLASS-33-174S	c 14	N72-22445 *	US-PATENT-CLASS-330-4.3	c 16	N73-32391 *
US-PATENT-CLASS-328-1	c 10	N71-19472 *	US-PATENT-CLASS-33-174	c 14	N69-21363 *	US-PATENT-CLASS-330-4.3	c 36	N75-19655 *
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US-PATENT-CLASS-331-31	c 33	N85-29143 *	US-PATENT-CLASS-332-22	c 32	N77-14292 *	US-PATENT-CLASS-333-98R	c 14	N73-13420 *
US-PATENT-CLASS-331-34	c 07	N72-11150 *	US-PATENT-CLASS-332-22	c 33	N81-15192 *	US-PATENT-CLASS-333-98R	c 33	N75-30430 *
US-PATENT-CLASS-331-36C	c 33	N77-14334 *	US-PATENT-CLASS-332-23A	c 32	N87-25511 *	US-PATENT-CLASS-333-98S	c 07	N72-25170 *
US-PATENT-CLASS-331-36C	c 33	N85-29143 *	US-PATENT-CLASS-332-23R	c 32	N77-14292 *	US-PATENT-CLASS-333-98	c 09	N71-23548 *
US-PATENT-CLASS-331-3	c 35	N76-15436 *	US-PATENT-CLASS-332-23R	c 33	N81-15192 *	US-PATENT-CLASS-333-98	c 09	N71-24808 *
US-PATENT-CLASS-331-3	c 33	N85-29143 *	US-PATENT-CLASS-332-29	c 07	N71-28429 *	US-PATENT-CLASS-333-99S	c 32	N80-32605 *
US-PATENT-CLASS-331-3	c 33	N88-26596 *	US-PATENT-CLASS-332-2	c 35	N75-19614 *	US-PATENT-CLASS-335-100	c 37	N85-30333 *
US-PATENT-CLASS-331-44	c 14	N72-27408 *	US-PATENT-CLASS-332-30V	c 33	N77-14334 *	US-PATENT-CLASS-335-205	c 09	N72-20199 *
US-PATENT-CLASS-331-45	c 10	N73-16206 *	US-PATENT-CLASS-332-30V	c 33	N77-17351 *	US-PATENT-CLASS-335-216	c 16	N71-28554 *
US-PATENT-CLASS-331-48	c 33	N81-17349 *	US-PATENT-CLASS-332-30	c 10	N71-27271 *	US-PATENT-CLASS-335-216	c 23	N71-29049 *
US-PATENT-CLASS-331-4	c 09	N69-21543 *	US-PATENT-CLASS-332-30	c 07	N71-28429 *	US-PATENT-CLASS-335-216	c 26	N73-32571 *
US-PATENT-CLASS-331-4	c 33	N74-10194 *	US-PATENT-CLASS-332-30	c 33	N77-21314 *	US-PATENT-CLASS-335-216	c 20	N75-24837 *
US-PATENT-CLASS-331-4	c 33	N78-32338 *	US-PATENT-CLASS-332-31	c 08	N71-12500 *	US-PATENT-CLASS-335-216	c 33	N79-21264 *
US-PATENT-CLASS-331-56	c 33	N87-21232 *	US-PATENT-CLASS-332-31	c 26	N72-21701 *	US-PATENT-CLASS-335-222	c 35	N84-28010 *
US-PATENT-CLASS-331-62	c 33	N74-11049 *	US-PATENT-CLASS-332-47	c 33	N75-19520 *	US-PATENT-CLASS-335-229	c 33	N82-24421 *
US-PATENT-CLASS-331-64	c 33	N78-32338 *	US-PATENT-CLASS-332-51W	c 07	N72-20141 *	US-PATENT-CLASS-335-256	c 33	N82-11357 *
US-PATENT-CLASS-331-65	c 35	N75-29380 *	US-PATENT-CLASS-332-52	c 33	N77-21314 *	US-PATENT-CLASS-335-266	c 33	N82-11357 *
US-PATENT-CLASS-331-65	c 33	N80-23559 *	US-PATENT-CLASS-332-7.51	c 16	N72-25485 *	US-PATENT-CLASS-335-266	c 33	N82-24421 *
US-PATENT-CLASS-331-66	c 07	N72-11150 *	US-PATENT-CLASS-332-7.51	c 07	N73-26119 *	US-PATENT-CLASS-335-296	c 09	N73-30185 *
US-PATENT-CLASS-331-66	c 33	N86-32624 *	US-PATENT-CLASS-332-7.51	c 33	N74-20859 *	US-PATENT-CLASS-335-297	c 09	N73-30185 *

US-PATENT-CLASS-335-300	c 09	N70-41929 *	US-PATENT-CLASS-34-57A	c 35	N83-24828 *	US-PATENT-CLASS-340-174	c 10	N71-26418 *
US-PATENT-CLASS-336-DIG.1	c 26	N73-26752 *	US-PATENT-CLASS-340-12R	c 35	N74-16135 *	US-PATENT-CLASS-340-174	c 10	N71-26434 *
US-PATENT-CLASS-336-DIG.1	c 33	N79-17133 *	US-PATENT-CLASS-340-12R	c 46	N79-23555 *	US-PATENT-CLASS-340-174	c 08	N71-28925 *
US-PATENT-CLASS-336-120	c 33	N82-24422 *	US-PATENT-CLASS-340-146.1AL	c 08	N72-25210 *	US-PATENT-CLASS-340-174	c 10	N71-29135 *
US-PATENT-CLASS-336-178	c 09	N72-17154 *	US-PATENT-CLASS-340-146.1AL	c 08	N73-12175 *	US-PATENT-CLASS-340-177VA	c 06	N80-18036 *
US-PATENT-CLASS-336-198	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AL	c 32	N77-12240 *	US-PATENT-CLASS-340-177	c 09	N72-17153 *
US-PATENT-CLASS-336-198	c 33	N85-29146 *	US-PATENT-CLASS-340-146.1AQ	c 08	N73-12177 *	US-PATENT-CLASS-340-182	c 33	N74-27862 *
US-PATENT-CLASS-336-200	c 26	N73-26752 *	US-PATENT-CLASS-340-146.1AQ	c 32	N74-32598 *	US-PATENT-CLASS-340-183	c 52	N74-26625 *
US-PATENT-CLASS-336-210	c 33	N74-17928 *	US-PATENT-CLASS-340-146.1AQ	c 32	N77-12240 *	US-PATENT-CLASS-340-189M	c 17	N76-29347 *
US-PATENT-CLASS-336-220	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AV	c 08	N73-12177 *	US-PATENT-CLASS-340-198	c 14	N70-33179 *
US-PATENT-CLASS-336-60	c 09	N72-27226 *	US-PATENT-CLASS-340-146.1AV	c 32	N77-12240 *	US-PATENT-CLASS-340-198	c 07	N71-11298 *
US-PATENT-CLASS-336-83	c 33	N82-24422 *	US-PATENT-CLASS-340-146.1AX	c 32	N79-10263 *	US-PATENT-CLASS-340-200	c 33	N74-27862 *
US-PATENT-CLASS-336-84C	c 33	N85-29146 *	US-PATENT-CLASS-340-146.1C	c 07	N73-20176 *	US-PATENT-CLASS-340-200	c 33	N77-31404 *
US-PATENT-CLASS-337-114	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1E	c 32	N79-10263 *	US-PATENT-CLASS-340-203	c 09	N72-22202 *
US-PATENT-CLASS-337-121	c 09	N71-29035 *	US-PATENT-CLASS-340-146.1	c 09	N71-18843 *	US-PATENT-CLASS-340-203	c 52	N74-26625 *
US-PATENT-CLASS-337-140	c 37	N86-19604 *	US-PATENT-CLASS-340-146.1	c 08	N71-22749 *	US-PATENT-CLASS-340-206	c 17	N76-29347 *
US-PATENT-CLASS-337-14	c 31	N83-31897 *	US-PATENT-CLASS-340-146.1	c 10	N71-26103 *	US-PATENT-CLASS-340-207P	c 17	N76-22245 *
US-PATENT-CLASS-337-334	c 37	N77-19458 *	US-PATENT-CLASS-340-146.1	c 08	N71-27255 *	US-PATENT-CLASS-340-207R	c 52	N74-26625 *
US-PATENT-CLASS-337-354	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N72-22167 *	US-PATENT-CLASS-340-207	c 07	N73-25160 *
US-PATENT-CLASS-337-359	c 15	N72-12409 *	US-PATENT-CLASS-340-146.1	c 08	N72-25207 *	US-PATENT-CLASS-340-210	c 03	N72-20031 *
US-PATENT-CLASS-337-393	c 37	N87-23970 *	US-PATENT-CLASS-340-146.1	c 07	N73-13149 *	US-PATENT-CLASS-340-213.1	c 10	N71-19417 *
US-PATENT-CLASS-337-75	c 15	N72-12409 *	US-PATENT-CLASS-340-146.2	c 08	N71-12505 *	US-PATENT-CLASS-340-213R	c 54	N78-32720 *
US-PATENT-CLASS-337	c 25	N79-28253 *	US-PATENT-CLASS-340-146.2	c 08	N71-23295 *	US-PATENT-CLASS-340-213	c 10	N71-27272 *
US-PATENT-CLASS-338-100	c 35	N78-17359 *	US-PATENT-CLASS-340-146.3	c 74	N81-19896 *	US-PATENT-CLASS-340-223	c 10	N73-32144 *
US-PATENT-CLASS-338-114	c 52	N74-27864 *	US-PATENT-CLASS-340-146.3P	c 43	N77-10584 *	US-PATENT-CLASS-340-224	c 37	N77-19458 *
US-PATENT-CLASS-338-13	c 24	N75-30260 *	US-PATENT-CLASS-340-146.3Q	c 43	N77-10584 *	US-PATENT-CLASS-340-227R	c 14	N72-25412 *
US-PATENT-CLASS-338-162	c 37	N75-13265 *	US-PATENT-CLASS-340-146.3S	c 74	N81-19896 *	US-PATENT-CLASS-340-227	c 10	N71-16058 *
US-PATENT-CLASS-338-18	c 35	N79-33449 *	US-PATENT-CLASS-340-146.3Y	c 74	N81-19896 *	US-PATENT-CLASS-340-227	c 14	N71-27186 *
US-PATENT-CLASS-338-229	c 35	N77-24454 *	US-PATENT-CLASS-340-147C	c 60	N76-14818 *	US-PATENT-CLASS-340-228.2	c 10	N72-17173 *
US-PATENT-CLASS-338-25	c 35	N77-21393 *	US-PATENT-CLASS-340-147R	c 07	N73-20176 *	US-PATENT-CLASS-340-228S	c 14	N73-16484 *
US-PATENT-CLASS-338-25	c 35	N82-24470 *	US-PATENT-CLASS-340-147R	c 60	N76-14818 *	US-PATENT-CLASS-340-233	c 14	N71-25901 *
US-PATENT-CLASS-338-273	c 35	N82-24470 *	US-PATENT-CLASS-340-147SY	c 17	N76-22245 *	US-PATENT-CLASS-340-235	c 10	N71-26334 *
US-PATENT-CLASS-338-285	c 24	N75-30260 *	US-PATENT-CLASS-340-147	c 09	N70-33182 *	US-PATENT-CLASS-340-237S	c 45	N76-17656 *
US-PATENT-CLASS-338-28	c 35	N77-20400 *	US-PATENT-CLASS-340-147	c 09	N70-38998 *	US-PATENT-CLASS-340-240	c 09	N72-27227 *
US-PATENT-CLASS-338-28	c 35	N77-24454 *	US-PATENT-CLASS-340-15.5GC	c 14	N73-26432 *	US-PATENT-CLASS-340-242	c 35	N75-19612 *
US-PATENT-CLASS-338-28	c 35	N82-24470 *	US-PATENT-CLASS-340-150	c 10	N71-27272 *	US-PATENT-CLASS-340-248	c 10	N71-27338 *
US-PATENT-CLASS-338-2	c 33	N75-31329 *	US-PATENT-CLASS-340-151	c 33	N74-27862 *	US-PATENT-CLASS-340-258R	c 07	N73-25160 *
US-PATENT-CLASS-338-2	c 35	N80-20560 *	US-PATENT-CLASS-340-163	c 07	N73-20176 *	US-PATENT-CLASS-340-258	c 10	N72-28240 *
US-PATENT-CLASS-338-2	c 52	N80-27072 *	US-PATENT-CLASS-340-164	c 10	N71-27272 *	US-PATENT-CLASS-340-25	c 14	N73-16483 *
US-PATENT-CLASS-338-309	c 27	N84-12443 *	US-PATENT-CLASS-340-166	c 10	N71-27272 *	US-PATENT-CLASS-340-262	c 54	N78-32720 *
US-PATENT-CLASS-338-325	c 33	N78-13320 *	US-PATENT-CLASS-340-166	c 10	N73-32144 *	US-PATENT-CLASS-340-26	c 21	N72-22619 *
US-PATENT-CLASS-338-320	c 33	N74-14935 *	US-PATENT-CLASS-340-167	c 07	N72-25173 *	US-PATENT-CLASS-340-26	c 04	N82-16059 *
US-PATENT-CLASS-338-36	c 35	N78-17359 *	US-PATENT-CLASS-340-171	c 09	N72-22202 *	US-PATENT-CLASS-340-27AT	c 21	N73-14692 *
US-PATENT-CLASS-338-5	c 32	N71-15974 *	US-PATENT-CLASS-340-171	c 16	N73-16536 *	US-PATENT-CLASS-340-27NA	c 21	N73-13643 *
US-PATENT-CLASS-338-5	c 52	N74-27864 *	US-PATENT-CLASS-340-172.5	c 08	N69-21928 *	US-PATENT-CLASS-340-27NA	c 06	N82-16075 *
US-PATENT-CLASS-338-64	c 09	N71-21583 *	US-PATENT-CLASS-340-172.5	c 09	N69-24333 *	US-PATENT-CLASS-340-27R	c 14	N73-16483 *
US-PATENT-CLASS-338-6	c 35	N76-14430 *	US-PATENT-CLASS-340-172.5	c 08	N71-12502 *	US-PATENT-CLASS-340-27R	c 14	N73-20474 *
US-PATENT-CLASS-338-6	c 52	N76-29895 *	US-PATENT-CLASS-340-172.5	c 08	N71-12506 *	US-PATENT-CLASS-340-27SS	c 35	N78-14364 *
US-PATENT-CLASS-338-75	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 31	N71-15566 *	US-PATENT-CLASS-340-271	c 35	N77-30436 *
US-PATENT-CLASS-338-82	c 09	N71-20842 *	US-PATENT-CLASS-340-172.5	c 08	N71-19288 *	US-PATENT-CLASS-340-277	c 10	N73-30205 *
US-PATENT-CLASS-338-89	c 35	N74-32877 *	US-PATENT-CLASS-340-172.5	c 08	N71-22707 *	US-PATENT-CLASS-340-279	c 05	N72-16015 *
US-PATENT-CLASS-338-97	c 37	N75-13265 *	US-PATENT-CLASS-340-172.5	c 08	N71-22710 *	US-PATENT-CLASS-340-279	c 10	N73-30205 *
US-PATENT-CLASS-338-99	c 35	N78-17359 *	US-PATENT-CLASS-340-172.5	c 07	N71-24624 *	US-PATENT-CLASS-340-279	c 54	N78-32720 *
US-PATENT-CLASS-339-143C	c 33	N76-16332 *	US-PATENT-CLASS-340-172.5	c 08	N71-27255 *	US-PATENT-CLASS-340-285	c 14	N71-25901 *
US-PATENT-CLASS-339-143R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 07	N72-25172 *	US-PATENT-CLASS-340-285	c 54	N78-32720 *
US-PATENT-CLASS-339-147R	c 09	N72-25256 *	US-PATENT-CLASS-340-172.5	c 08	N72-25207 *	US-PATENT-CLASS-340-309.1	c 54	N78-32720 *
US-PATENT-CLASS-339-150	c 09	N69-21470 *	US-PATENT-CLASS-340-172.5	c 09	N72-25248 *	US-PATENT-CLASS-340-309.4	c 33	N81-14221 *
US-PATENT-CLASS-339-17M	c 37	N76-27567 *	US-PATENT-CLASS-340-172.5	c 08	N73-13187 *	US-PATENT-CLASS-340-310A	c 33	N81-14221 *
US-PATENT-CLASS-339-17R	c 15	N71-29133 *	US-PATENT-CLASS-340-172.5	c 08	N73-26176 *	US-PATENT-CLASS-340-310R	c 33	N81-14221 *
US-PATENT-CLASS-339-176MF	c 09	N72-28225 *	US-PATENT-CLASS-340-172.5	c 60	N76-18800 *	US-PATENT-CLASS-340-324AD	c 33	N75-19517 *
US-PATENT-CLASS-339-176M	c 15	N72-17455 *	US-PATENT-CLASS-340-172.5	c 60	N76-21914 *	US-PATENT-CLASS-340-324A	c 09	N72-25248 *
US-PATENT-CLASS-339-176	c 09	N70-34596 *	US-PATENT-CLASS-340-172.5	c 60	N77-12721 *	US-PATENT-CLASS-340-324R	c 26	N72-25680 *
US-PATENT-CLASS-339-176	c 09	N70-36494 *	US-PATENT-CLASS-340-172.5	c 60	N77-14751 *	US-PATENT-CLASS-340-324	c 08	N71-12507 *
US-PATENT-CLASS-339-177	c 09	N71-20851 *	US-PATENT-CLASS-340-173.2	c 08	N77-19760 *	US-PATENT-CLASS-340-324	c 09	N71-33519 *
US-PATENT-CLASS-339-17	c 14	N69-27431 *	US-PATENT-CLASS-340-173CA	c 33	N72-21198 *	US-PATENT-CLASS-340-332	c 09	N72-25250 *
US-PATENT-CLASS-339-17	c 15	N71-17685 *	US-PATENT-CLASS-340-173CR	c 60	N75-31331 *	US-PATENT-CLASS-340-336	c 09	N71-33519 *
US-PATENT-CLASS-339-17	c 09	N71-26133 *	US-PATENT-CLASS-340-173CR	c 60	N74-12888 *	US-PATENT-CLASS-340-33	c 21	N73-13643 *
US-PATENT-CLASS-339-18C	c 37	N76-27567 *	US-PATENT-CLASS-340-173LM	c 60	N74-12888 *	US-PATENT-CLASS-340-347AD	c 14	N71-28991 *
US-PATENT-CLASS-339-198R	c 33	N76-16332 *	US-PATENT-CLASS-340-173LM	c 60	N78-10709 *	US-PATENT-CLASS-340-347AD	c 08	N72-21200 *
US-PATENT-CLASS-339-218M	c 09	N72-28225 *	US-PATENT-CLASS-340-173LS	c 08	N72-21198 *	US-PATENT-CLASS-340-347AD	c 08	N72-22163 *
US-PATENT-CLASS-339-242	c 33	N76-16332 *	US-PATENT-CLASS-340-173LS	c 36	N75-19652 *	US-PATENT-CLASS-340-347AD	c 08	N72-22166 *
US-PATENT-CLASS-339-252R	c 52	N77-14738 *	US-PATENT-CLASS-340-173	c 10	N73-32144 *	US-PATENT-CLASS-340-347AD	c 08	N72-31226 *
US-PATENT-CLASS-339-258RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1L	c 35	N74-11283 *	US-PATENT-CLASS-340-347AD	c 08	N73-20217 *
US-PATENT-CLASS-339-262RR	c 33	N84-14423 *	US-PATENT-CLASS-340-174.1M	c 36	N74-13205 *	US-PATENT-CLASS-340-347AD	c 35	N74-17885 *
US-PATENT-CLASS-339-275R	c 33	N76-16332 *	US-PATENT-CLASS-340-174.1M	c 35	N78-29421 *	US-PATENT-CLASS-340-347AD	c 35	N74-32877 *
US-PATENT-CLASS-339-275T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1R	c 21	N79-16246 *	US-PATENT-CLASS-340-347AD	c 33	N76-18345 *
US-PATENT-CLASS-339-276T	c 09	N72-20200 *	US-PATENT-CLASS-340-174.1R	c 08	N73-13644 *	US-PATENT-CLASS-340-347AD	c 60	N77-32731 *
US-PATENT-CLASS-339-278M	c 15	N72-17455 *	US-PATENT-CLASS-340-174.1	c 08	N71-21042 *	US-PATENT-CLASS-340-347CC	c 31	N86-29055 *
US-PATENT-CLASS-339-3R	c 07	N83-20944 *	US-PATENT-CLASS-340-174.1	c 07	N71-23001 *	US-PATENT-CLASS-340-347DA	c 08	N71-27057 *
US-PATENT-CLASS-339-45M	c 15	N72-25450 *	US-PATENT-CLASS-340-174.1	c 08	N71-27210 *	US-PATENT-CLASS-340-347DA	c 08	N72-20176 *
US-PATENT-CLASS-339-46	c 15	N72-17455 *	US-PATENT-CLASS-340-174AG	c 23	N72-17747 *	US-PATENT-CLASS-340-347DA	c 08	N72-25206 *
US-PATENT-CLASS-339-5R	c 07	N83-20944 *	US-PATENT-CLASS-340-174CS	c 08	N72-21199 *	US-PATENT-CLASS-340-347DA	c 08	N73-32081 *
US-PATENT-CLASS-339-5	c 15	N71-23049 *	US-PATENT-CLASS-340-174CT	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 10	N71-33407 *
US-PATENT-CLASS-339-64M	c 33	N84-14423 *	US-PATENT-CLASS-340-174GA	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 08	N72-18184 *
US-PATENT-CLASS-339-75MP	c 09	N72-28225 *	US-PATENT-CLASS-340-174LC	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 08	N72-20176 *
US-PATENT-CLASS-339-91B	c 15	N72-25450 *	US-PATENT-CLASS-340-174MA	c 24	N75-13032 *	US-PATENT-CLASS-340-347DD	c 08	N72-21197 *
US-PATENT-CLASS-339-91	c 09	N69-21927 *	US-PATENT-CLASS-340-174M	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 08	N73-12176 *
US-PATENT-CLASS-339-94M	c 09	N72-28225 *	US-PATENT-CLASS-340-174SC	c 23	N72-17747 *	US-PATENT-CLASS-340-347DD	c 60	N76-23850 *
US-PATENT-CLASS-339-95	c 09	N69-39734 *	US-PATENT-CLASS-340-174SR	c 08	N72-21199 *	US-PATENT-CLASS-340-347DD	c 32	N77-12239 *
US-PATENT-CLASS-339-12R	c 52	N77-25772 *	US-PATENT-CLASS-340-174YC	c 36	N74-13205 *	US-PATENT-CLASS-340-347DD	c 60	N78-17691 *
US-PATENT-CLASS-34-155	c 14	N73-28489 *	US-PATENT-CLASS-340-174YC	c 35	N78-29421 *	US-PATENT-CLASS-340-347DD	c 60	N79-20751 *
US-PATENT-CLASS-34-15	c 28	N78-24365 *	US-PATENT-CLASS-340-174	c 08	N71-12504 *	US-PATENT-CLASS-340-347DD	c 33	N82-26570 *
US-PATENT-CLASS-34-160	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 09	N71-12515 *	US-PATENT-CLASS-340-347DD	c 32	N86-27513 *
US-PATENT-CLASS-34-162	c 14	N73-28489 *	US-PATENT-CLASS-340-174	c 08	N71-18595 *	US-PATENT-CLASS-340-347P	c 60	N76-23850 *
US-PATENT-CLASS-34-162	c 35	N74-15831 *	US-PATENT-CLASS-340-174	c 08	N71-18694 *	US-PATENT-CLASS-340-347P	c 35	N77-30436 *
			US-PATENT-CLASS-340-174	c 10	N71-23033 *	US-PATENT-CLASS-340-347R	c 08	N72-22165 *

US-PATENT-CLASS-340-347SH .. c 33	N77-31404 *	US-PATENT-CLASS-343-100ST .. c 07	N72-21118 *	US-PATENT-CLASS-343-460 c 46	N85-21846 *
US-PATENT-CLASS-340-347SY .. c 62	N76-31946 *	US-PATENT-CLASS-343-100ST .. c 33	N74-20860 *	US-PATENT-CLASS-343-5-CD c 43	N86-19711 *
US-PATENT-CLASS-340-347SY .. c 35	N77-30436 *	US-PATENT-CLASS-343-100ST .. c 32	N75-15854 *	US-PATENT-CLASS-343-5-CM c 32	N84-34651 *
US-PATENT-CLASS-340-347SY .. c 31	N86-29055 *	US-PATENT-CLASS-343-100ST .. c 17	N76-21250 *	US-PATENT-CLASS-343-5-CM c 32	N85-34327 *
US-PATENT-CLASS-340-347 c 08	N70-35423 *	US-PATENT-CLASS-343-100ST .. c 32	N77-20289 *	US-PATENT-CLASS-343-5-CM c 43	N86-19711 *
US-PATENT-CLASS-340-347 c 08	N70-40125 *	US-PATENT-CLASS-343-100ST .. c 33	N80-18287 *	US-PATENT-CLASS-343-5-CD c 32	N84-34651 *
US-PATENT-CLASS-340-347 c 08	N71-12501 *	US-PATENT-CLASS-343-100TD .. c 32	N79-24210 *	US-PATENT-CLASS-343-5-FT c 32	N84-34651 *
US-PATENT-CLASS-340-347 c 08	N71-18594 *	US-PATENT-CLASS-343-100TD .. c 32	N81-14185 *	US-PATENT-CLASS-343-5-VQ c 43	N86-19711 *
US-PATENT-CLASS-340-347 c 08	N71-19435 *	US-PATENT-CLASS-343-100 c 10	N71-18722 *	US-PATENT-CLASS-343-5-W c 32	N85-34327 *
US-PATENT-CLASS-340-347 c 08	N71-19544 *	US-PATENT-CLASS-343-100 c 07	N71-19854 *	US-PATENT-CLASS-343-5CM c 07	N72-21118 *
US-PATENT-CLASS-340-347 c 08	N71-19687 *	US-PATENT-CLASS-343-100 c 30	N71-23723 *	US-PATENT-CLASS-343-5CM c 32	N77-21267 *
US-PATENT-CLASS-340-347 c 08	N71-24650 *	US-PATENT-CLASS-343-100 c 07	N71-24621 *	US-PATENT-CLASS-343-5CM c 32	N77-32342 *
US-PATENT-CLASS-340-347 c 10	N71-25917 *	US-PATENT-CLASS-343-100 c 09	N71-24804 *	US-PATENT-CLASS-343-5CM c 35	N79-10391 *
US-PATENT-CLASS-340-347 c 10	N71-26544 *	US-PATENT-CLASS-343-100 c 31	N71-24813 *	US-PATENT-CLASS-343-5CM c 32	N79-14268 *
US-PATENT-CLASS-340-347 c 08	N73-28045 *	US-PATENT-CLASS-343-100 c 07	N71-27056 *	US-PATENT-CLASS-343-5CM c 43	N80-18498 *
US-PATENT-CLASS-340-348 c 08	N72-22167 *	US-PATENT-CLASS-343-100 c 07	N71-28900 *	US-PATENT-CLASS-343-5CM c 32	N82-12297 *
US-PATENT-CLASS-340-348P c 66	N76-19888 *	US-PATENT-CLASS-343-105R c 32	N75-26194 *	US-PATENT-CLASS-343-5CM c 32	N83-18975 *
US-PATENT-CLASS-340-403 c 10	N71-27272 *	US-PATENT-CLASS-343-105R c 04	N84-27713 *	US-PATENT-CLASS-343-5CM c 32	N83-19968 *
US-PATENT-CLASS-340-407 c 71	N74-21014 *	US-PATENT-CLASS-343-108R c 04	N74-13420 *	US-PATENT-CLASS-343-5CM c 32	N83-31918 *
US-PATENT-CLASS-340-407 c 82	N87-29372 *	US-PATENT-CLASS-343-110 c 32	N77-32342 *	US-PATENT-CLASS-343-5DP c 07	N72-11149 *
US-PATENT-CLASS-340-412 c 10	N71-24798 *	US-PATENT-CLASS-343-112D c 09	N73-12211 *	US-PATENT-CLASS-343-5DP c 09	N73-12211 *
US-PATENT-CLASS-340-415 c 10	N73-32144 *	US-PATENT-CLASS-343-111R c 09	N73-12211 *	US-PATENT-CLASS-343-5DP c 32	N77-32342 *
US-PATENT-CLASS-340-418 c 14	N73-16484 *	US-PATENT-CLASS-343-112CA c 21	N73-12643 *	US-PATENT-CLASS-343-5DP c 32	N82-23376 *
US-PATENT-CLASS-340-5C c 14	N73-27379 *	US-PATENT-CLASS-343-112CA c 21	N73-30641 *	US-PATENT-CLASS-343-5DP c 32	N75-24982 *
US-PATENT-CLASS-340-5H c 32	N77-21267 *	US-PATENT-CLASS-343-112CA c 03	N75-30132 *	US-PATENT-CLASS-343-5MM c 32	N77-21267 *
US-PATENT-CLASS-340-5R c 35	N74-16135 *	US-PATENT-CLASS-343-112D c 14	N72-28437 *	US-PATENT-CLASS-343-5NA c 31	N79-28370 *
US-PATENT-CLASS-340-518 c 35	N83-34272 *	US-PATENT-CLASS-343-112D c 32	N75-26194 *	US-PATENT-CLASS-343-5W c 35	N79-10391 *
US-PATENT-CLASS-340-555 c 74	N85-22139 *	US-PATENT-CLASS-343-112D c 46	N80-14603 *	US-PATENT-CLASS-343-5W c 43	N80-18498 *
US-PATENT-CLASS-340-566 c 35	N83-34272 *	US-PATENT-CLASS-343-112R c 09	N73-32110 *	US-PATENT-CLASS-343-5W c 46	N85-21846 *
US-PATENT-CLASS-340-57 c 14	N71-15620 *	US-PATENT-CLASS-343-112R c 17	N78-17140 *	US-PATENT-CLASS-343-5BR c 32	N77-20289 *
US-PATENT-CLASS-340-580 c 35	N88-29149 *	US-PATENT-CLASS-343-112R c 04	N80-32359 *	US-PATENT-CLASS-343-5BR c 07	N72-12080 *
US-PATENT-CLASS-340-602 c 33	N80-23559 *	US-PATENT-CLASS-343-112R c 32	N81-27341 *	US-PATENT-CLASS-343-5BR c 07	N72-21118 *
US-PATENT-CLASS-340-604 c 33	N80-23559 *	US-PATENT-CLASS-343-112TC c 17	N76-21250 *	US-PATENT-CLASS-343-5BR c 07	N72-25171 *
US-PATENT-CLASS-340-605 c 25	N86-27431 *	US-PATENT-CLASS-343-112 c 21	N71-13958 *	US-PATENT-CLASS-343-5BR c 08	N72-25209 *
US-PATENT-CLASS-340-650 c 33	N79-18193 *	US-PATENT-CLASS-343-112 c 02	N71-24621 *	US-PATENT-CLASS-343-5BR c 07	N73-25161 *
US-PATENT-CLASS-340-664 c 33	N79-18193 *	US-PATENT-CLASS-343-112 c 21	N71-24948 *	US-PATENT-CLASS-343-5BR c 21	N73-30641 *
US-PATENT-CLASS-340-705 c 06	N84-27733 *	US-PATENT-CLASS-343-113R c 09	N73-32110 *	US-PATENT-CLASS-343-5BR c 32	N74-12912 *
US-PATENT-CLASS-340-8LF c 71	N79-23753 *	US-PATENT-CLASS-343-113R c 44	N78-28594 *	US-PATENT-CLASS-343-5BR c 32	N75-15854 *
US-PATENT-CLASS-340-8R c 35	N74-16135 *	US-PATENT-CLASS-343-113 c 10	N71-21473 *	US-PATENT-CLASS-343-5BR c 03	N75-30132 *
US-PATENT-CLASS-340-825.21 c 60	N84-28492 *	US-PATENT-CLASS-343-113 c 07	N71-24621 *	US-PATENT-CLASS-343-5BR c 32	N77-20289 *
US-PATENT-CLASS-340-825.5 c 60	N84-28492 *	US-PATENT-CLASS-343-117R c 32	N79-13214 *	US-PATENT-CLASS-343-5SS c 32	N74-12912 *
US-PATENT-CLASS-340-825.5 c 17	N87-16863 *	US-PATENT-CLASS-343-117 c 07	N71-27056 *	US-PATENT-CLASS-343-5 c 21	N71-11766 *
US-PATENT-CLASS-340-825.89 c 33	N82-29538 *	US-PATENT-CLASS-343-118 c 32	N79-13214 *	US-PATENT-CLASS-343-5 c 10	N71-23099 *
US-PATENT-CLASS-340-870.13 c 35	N84-22934 *	US-PATENT-CLASS-343-119 c 44	N78-28594 *	US-PATENT-CLASS-343-5BR c 04	N86-19304 *
US-PATENT-CLASS-340-870.18 c 17	N87-16863 *	US-PATENT-CLASS-343-12R c 08	N72-25209 *	US-PATENT-CLASS-343-5BR c 07	N72-12080 *
US-PATENT-CLASS-340-870.24 c 33	N81-14221 *	US-PATENT-CLASS-343-12 c 21	N70-41930 *	US-PATENT-CLASS-343-5BR c 07	N73-25161 *
US-PATENT-CLASS-340-905 c 35	N84-33769 *	US-PATENT-CLASS-343-12 c 10	N72-20224 *	US-PATENT-CLASS-343-5BR c 14	N73-25461 *
US-PATENT-CLASS-340-945 c 06	N87-22678 *	US-PATENT-CLASS-343-13R c 74	N85-34629 *	US-PATENT-CLASS-343-6R c 32	N79-10264 *
US-PATENT-CLASS-340-967 c 08	N87-20999 *	US-PATENT-CLASS-343-13 c 09	N71-18598 *	US-PATENT-CLASS-343-6 c 30	N71-16090 *
US-PATENT-CLASS-340-968 c 06	N86-27280 *	US-PATENT-CLASS-343-14 c 07	N70-41680 *	US-PATENT-CLASS-343-7.4 c 10	N72-22235 *
US-PATENT-CLASS-340-971 c 06	N84-27733 *	US-PATENT-CLASS-343-14 c 08	N72-25209 *	US-PATENT-CLASS-343-7.4 c 32	N79-13214 *
US-PATENT-CLASS-340-971 c 06	N87-22678 *	US-PATENT-CLASS-343-14 c 14	N73-25461 *	US-PATENT-CLASS-343-7.5 c 07	N69-39974 *
US-PATENT-CLASS-340-975 c 06	N84-27733 *	US-PATENT-CLASS-343-14 c 32	N79-14267 *	US-PATENT-CLASS-343-7.5 c 09	N71-24595 *
US-PATENT-CLASS-340-975 c 06	N87-22678 *	US-PATENT-CLASS-343-14 c 31	N79-28370 *	US-PATENT-CLASS-343-7.5 c 07	N72-11149 *
US-PATENT-CLASS-340-978 c 06	N84-27733 *	US-PATENT-CLASS-343-16M c 10	N72-22235 *	US-PATENT-CLASS-343-7.5 c 44	N74-19870 *
US-PATENT-CLASS-340-97 c 21	N73-13643 *	US-PATENT-CLASS-343-16M c 44	N78-28594 *	US-PATENT-CLASS-343-7.5 c 32	N82-23376 *
US-PATENT-CLASS-340-980 c 06	N84-27733 *	US-PATENT-CLASS-343-16 c 09	N71-20864 *	US-PATENT-CLASS-343-700MS c 32	N78-24391 *
US-PATENT-CLASS-340-988 c 35	N84-33769 *	US-PATENT-CLASS-343-16 c 10	N71-21483 *	US-PATENT-CLASS-343-700MS c 32	N80-32604 *
US-PATENT-CLASS-342-125 c 32	N88-26568 *	US-PATENT-CLASS-343-17.1PF c 32	N82-23476 *	US-PATENT-CLASS-343-700MS c 32	N82-11336 *
US-PATENT-CLASS-342-127 c 32	N88-26568 *	US-PATENT-CLASS-343-17.2PC c 32	N85-34327 *	US-PATENT-CLASS-343-703 c 09	N71-13521 *
US-PATENT-CLASS-342-165 c 32	N89-28672 *	US-PATENT-CLASS-343-17.2PC c 35	N79-10391 *	US-PATENT-CLASS-343-703 c 07	N71-24614 *
US-PATENT-CLASS-342-195 c 33	N89-14384 *	US-PATENT-CLASS-343-17.2 c 07	N70-36911 *	US-PATENT-CLASS-343-705 c 07	N70-38200 *
US-PATENT-CLASS-342-1 c 32	N89-28672 *	US-PATENT-CLASS-343-17.5 c 14	N73-25461 *	US-PATENT-CLASS-343-705 c 07	N70-40202 *
US-PATENT-CLASS-342-374 c 32	N89-11961 *	US-PATENT-CLASS-343-17.5 c 32	N75-15854 *	US-PATENT-CLASS-343-705 c 31	N71-10747 *
US-PATENT-CLASS-342-375 c 32	N89-11961 *	US-PATENT-CLASS-343-17.5 c 32	N84-22820 *	US-PATENT-CLASS-343-705 c 03	N76-32140 *
US-PATENT-CLASS-342-43 c 32	N88-26568 *	US-PATENT-CLASS-343-17.7 c 07	N71-12391 *	US-PATENT-CLASS-343-706 c 07	N72-21117 *
US-PATENT-CLASS-342-51 c 32	N88-26568 *	US-PATENT-CLASS-343-17.7 c 44	N74-19870 *	US-PATENT-CLASS-343-708 c 09	N71-22888 *
US-PATENT-CLASS-342-5 c 32	N89-28672 *	US-PATENT-CLASS-343-17.7 c 32	N77-31350 *	US-PATENT-CLASS-343-708 c 07	N71-22984 *
US-PATENT-CLASS-343-DIG.2 c 07	N73-24176 *	US-PATENT-CLASS-343-17.7 c 32	N79-11265 *	US-PATENT-CLASS-343-708 c 07	N71-28980 *
US-PATENT-CLASS-343-DIG.2 c 33	N74-20860 *	US-PATENT-CLASS-343-17.7 c 32	N84-27951 *	US-PATENT-CLASS-343-708 c 09	N72-25247 *
US-PATENT-CLASS-343-DIG.2 c 37	N86-25791 *	US-PATENT-CLASS-343-17.7 c 33	N85-21493 *	US-PATENT-CLASS-343-708 c 32	N74-20864 *
US-PATENT-CLASS-343-DIG.3 c 32	N89-25363 *	US-PATENT-CLASS-343-176 c 07	N71-27056 *	US-PATENT-CLASS-343-708 c 32	N82-11336 *
US-PATENT-CLASS-343-DIG.3 c 09	N72-12136 *	US-PATENT-CLASS-343-176 c 32	N76-14321 *	US-PATENT-CLASS-343-718 c 09	N71-18720 *
US-PATENT-CLASS-343-DIG2 c 07	N83-20944 *	US-PATENT-CLASS-343-179 c 07	N72-11149 *	US-PATENT-CLASS-343-720 c 09	N72-12136 *
US-PATENT-CLASS-343-100AP c 33	N83-36355 *	US-PATENT-CLASS-343-179 c 07	N73-20174 *	US-PATENT-CLASS-343-725 c 07	N73-28013 *
US-PATENT-CLASS-343-100CL c 32	N77-32342 *	US-PATENT-CLASS-343-179 c 32	N78-15323 *	US-PATENT-CLASS-343-727 c 32	N81-14187 *
US-PATENT-CLASS-343-100CL c 32	N79-14268 *	US-PATENT-CLASS-343-179 c 32	N79-20296 *	US-PATENT-CLASS-343-727 c 32	N82-11336 *
US-PATENT-CLASS-343-100CL c 32	N81-29308 *	US-PATENT-CLASS-343-18A c 32	N80-14281 *	US-PATENT-CLASS-343-729 c 07	N73-28013 *
US-PATENT-CLASS-343-100CL c 32	N83-18975 *	US-PATENT-CLASS-343-18B c 32	N74-12912 *	US-PATENT-CLASS-343-730 c 32	N74-20863 *
US-PATENT-CLASS-343-100CL c 32	N83-19968 *	US-PATENT-CLASS-343-18B c 32	N77-21267 *	US-PATENT-CLASS-343-754 c 09	N73-19234 *
US-PATENT-CLASS-343-100ME c 14	N72-28437 *	US-PATENT-CLASS-343-18B c 43	N80-18498 *	US-PATENT-CLASS-343-755 c 33	N76-27472 *
US-PATENT-CLASS-343-100ME c 14	N73-26432 *	US-PATENT-CLASS-343-18D c 43	N80-18498 *	US-PATENT-CLASS-343-755 c 32	N81-25278 *
US-PATENT-CLASS-343-100ME c 46	N80-14603 *	US-PATENT-CLASS-343-18 c 31	N70-37981 *	US-PATENT-CLASS-343-761 c 33	N75-19516 *
US-PATENT-CLASS-343-100ME c 35	N80-18359 *	US-PATENT-CLASS-343-18 c 07	N70-40063 *	US-PATENT-CLASS-343-761 c 32	N76-21365 *
US-PATENT-CLASS-343-100ME c 46	N82-12685 *	US-PATENT-CLASS-343-18 c 30	N70-40309 *	US-PATENT-CLASS-343-762 c 07	N72-25174 *
US-PATENT-CLASS-343-100ME c 06	N83-10040 *	US-PATENT-CLASS-343-18 c 07	N70-41678 *	US-PATENT-CLASS-343-768 c 10	N71-26142 *
US-PATENT-CLASS-343-100PE c 32	N75-24982 *	US-PATENT-CLASS-343-200 c 07	N73-16121 *	US-PATENT-CLASS-343-769 c 32	N74-20864 *
US-PATENT-CLASS-343-100PE c 33	N81-26358 *	US-PATENT-CLASS-343-204 c 07	N73-26118 *	US-PATENT-CLASS-343-770 c 09	N72-31235 *
US-PATENT-CLASS-343-100PE c 46	N82-12685 *	US-PATENT-CLASS-343-225 c 17	N78-17140 *	US-PATENT-CLASS-343-770 c 33	N76-14372 *
US-PATENT-CLASS-343-100PE c 35	N82-15381 *	US-PATENT-CLASS-343-352 c 43	N85-21723 *	US-PATENT-CLASS-343-771 c 07	N71-28809 *
US-PATENT-CLASS-343-100R c 10	N73-16206 *	US-PATENT-CLASS-343-352 c 46	N85-21846 *	US-PATENT-CLASS-343-771 c 07	N72-11148 *
US-PATENT-CLASS-343-100R c 33	N80-18287 *	US-PATENT-CLASS-343-356 c 04	N84-22546 *	US-PATENT-CLASS-343-771 c 09	N72-21244 *
US-PATENT-CLASS-343-100SA c 10	N73-16206 *	US-PATENT-CLASS-343-357 c 04	N84-22546 *	US-PATENT-CLASS-343-771 c 07	N72-21217 *
US-PATENT-CLASS-343-100SA c 33	N74-20860 *	US-PATENT-CLASS-343-357 c 04	N86-27270 *	US-PATENT-CLASS-343-771 c 09	N72-25247 *
US-PATENT-CLASS-343-100SA c 17	N76-21250 *	US-PATENT-CLASS-343-376 c 33	N85-21493 *	US-PATENT-CLASS-343-771 c 09	N72-31235 *
US-PATENT-CLASS-343-100SA c 32	N80-28578 *	US-PATENT-CLASS-343-418 c 04	N86-27270 *	US-PATENT-CLASS-343-772 c 07	N72-20141 *

US-PATENT-CLASS-343-772	c 32	N81-25278 *	US-PATENT-CLASS-343-883	c 07	N73-26117 *	US-PATENT-CLASS-350-162SF	c 23	N73-30666 *
US-PATENT-CLASS-343-773	c 07	N72-20141 *	US-PATENT-CLASS-343-883	c 18	N80-14183 *	US-PATENT-CLASS-350-162SF	c 74	N76-31198 *
US-PATENT-CLASS-343-776	c 07	N71-12396 *	US-PATENT-CLASS-343-883	c 37	N86-25791 *	US-PATENT-CLASS-350-162SF	c 74	N77-28932 *
US-PATENT-CLASS-343-777	c 07	N71-27233 *	US-PATENT-CLASS-343-884	c 07	N71-27191 *	US-PATENT-CLASS-350-162SF	c 36	N77-32478 *
US-PATENT-CLASS-343-777	c 07	N72-25174 *	US-PATENT-CLASS-343-889	c 07	N73-26117 *	US-PATENT-CLASS-350-162	c 14	N72-17323 *
US-PATENT-CLASS-343-777	c 32	N89-11961 *	US-PATENT-CLASS-343-893	c 09	N72-21244 *	US-PATENT-CLASS-350-163	c 36	N88-14350 *
US-PATENT-CLASS-343-778	c 32	N89-11961 *	US-PATENT-CLASS-343-893	c 07	N73-28013 *	US-PATENT-CLASS-350-165	c 27	N78-31233 *
US-PATENT-CLASS-343-779	c 07	N71-11285 *	US-PATENT-CLASS-343-895	c 09	N73-19234 *	US-PATENT-CLASS-350-166	c 44	N83-34448 *
US-PATENT-CLASS-343-779	c 10	N72-22235 *	US-PATENT-CLASS-343-895	c 07	N73-26117 *	US-PATENT-CLASS-350-168	c 74	N85-23396 *
US-PATENT-CLASS-343-779	c 07	N72-25174 *	US-PATENT-CLASS-343-895	c 32	N80-23524 *	US-PATENT-CLASS-350-16	c 14	N72-22444 *
US-PATENT-CLASS-343-779	c 32	N76-15329 *	US-PATENT-CLASS-343-895	c 32	N82-27558 *	US-PATENT-CLASS-350-170	c 73	N78-32848 *
US-PATENT-CLASS-343-779	c 33	N76-27472 *	US-PATENT-CLASS-343-9PS	c 32	N83-19968 *	US-PATENT-CLASS-350-170	c 74	N83-10900 *
US-PATENT-CLASS-343-779	c 32	N89-11961 *	US-PATENT-CLASS-343-9PS	c 32	N83-31918 *	US-PATENT-CLASS-350-171	c 23	N72-32695 *
US-PATENT-CLASS-343-781CA	c 32	N78-31321 *	US-PATENT-CLASS-343-9R	c 32	N84-22820 *	US-PATENT-CLASS-350-171	c 74	N83-17305 *
US-PATENT-CLASS-343-781P	c 46	N82-12685 *	US-PATENT-CLASS-343-909	c 32	N74-11000 *	US-PATENT-CLASS-350-172	c 74	N84-23248 *
US-PATENT-CLASS-343-781R	c 32	N81-25278 *	US-PATENT-CLASS-343-909	c 35	N76-15435 *	US-PATENT-CLASS-350-173	c 73	N78-32848 *
US-PATENT-CLASS-343-781	c 09	N70-35219 *	US-PATENT-CLASS-343-909	c 33	N79-28416 *	US-PATENT-CLASS-350-173	c 74	N83-36898 *
US-PATENT-CLASS-343-781	c 09	N70-35382 *	US-PATENT-CLASS-343-909	c 32	N80-14281 *	US-PATENT-CLASS-350-173	c 74	N84-23248 *
US-PATENT-CLASS-343-781	c 09	N70-35425 *	US-PATENT-CLASS-343-912	c 07	N72-21117 *	US-PATENT-CLASS-350-174	c 74	N77-20882 *
US-PATENT-CLASS-343-781	c 07	N72-32169 *	US-PATENT-CLASS-343-912	c 07	N72-22127 *	US-PATENT-CLASS-350-174	c 73	N78-32848 *
US-PATENT-CLASS-343-781	c 32	N74-11000 *	US-PATENT-CLASS-343-912	c 32	N76-18295 *	US-PATENT-CLASS-350-174	c 36	N88-14350 *
US-PATENT-CLASS-343-781	c 33	N75-19516 *	US-PATENT-CLASS-343-915	c 31	N71-16102 *	US-PATENT-CLASS-350-175E	c 74	N80-27185 *
US-PATENT-CLASS-343-781	c 32	N76-21365 *	US-PATENT-CLASS-343-915	c 09	N71-20658 *	US-PATENT-CLASS-350-175FS	c 14	N72-25414 *
US-PATENT-CLASS-343-782	c 07	N73-14130 *	US-PATENT-CLASS-343-915	c 07	N72-32169 *	US-PATENT-CLASS-350-175NG	c 27	N78-31233 *
US-PATENT-CLASS-343-782	c 32	N78-31321 *	US-PATENT-CLASS-343-915	c 07	N73-14130 *	US-PATENT-CLASS-350-189	c 23	N71-24857 *
US-PATENT-CLASS-343-784	c 07	N71-28980 *	US-PATENT-CLASS-343-915	c 07	N73-24176 *	US-PATENT-CLASS-350-199	c 14	N73-30393 *
US-PATENT-CLASS-343-786	c 07	N71-15907 *	US-PATENT-CLASS-343-915	c 32	N76-18295 *	US-PATENT-CLASS-350-199	c 14	N72-22441 *
US-PATENT-CLASS-343-786	c 07	N71-22750 *	US-PATENT-CLASS-343-915	c 33	N76-32457 *	US-PATENT-CLASS-350-1	c 23	N69-24332 *
US-PATENT-CLASS-343-786	c 07	N71-26101 *	US-PATENT-CLASS-343-915	c 32	N89-25363 *	US-PATENT-CLASS-350-1	c 07	N71-29065 *
US-PATENT-CLASS-343-786	c 07	N71-27233 *	US-PATENT-CLASS-343-9	c 32	N75-15854 *	US-PATENT-CLASS-350-1	c 16	N72-12440 *
US-PATENT-CLASS-343-786	c 07	N72-20141 *	US-PATENT-CLASS-343-9	c 32	N79-10264 *	US-PATENT-CLASS-350-1	c 24	N76-24363 *
US-PATENT-CLASS-343-786	c 10	N72-22235 *	US-PATENT-CLASS-346-107A	c 14	N72-18411 *	US-PATENT-CLASS-350-1	c 74	N78-15879 *
US-PATENT-CLASS-343-786	c 07	N72-25174 *	US-PATENT-CLASS-346-107	c 23	N71-23976 *	US-PATENT-CLASS-350-202	c 23	N73-20741 *
US-PATENT-CLASS-343-786	c 09	N72-31235 *	US-PATENT-CLASS-346-108	c 35	N74-15831 *	US-PATENT-CLASS-350-202	c 74	N77-28932 *
US-PATENT-CLASS-343-786	c 32	N74-20863 *	US-PATENT-CLASS-346-110	c 14	N73-32322 *	US-PATENT-CLASS-350-203	c 14	N72-25409 *
US-PATENT-CLASS-343-786	c 32	N76-15330 *	US-PATENT-CLASS-346-138	c 21	N73-13644 *	US-PATENT-CLASS-350-204	c 14	N73-30393 *
US-PATENT-CLASS-343-786	c 32	N76-21365 *	US-PATENT-CLASS-346-138	c 35	N74-15831 *	US-PATENT-CLASS-350-204	c 74	N78-17866 *
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US-PATENT-CLASS-350-573	c 36	N88-14350 *	US-PATENT-CLASS-356-141	c 89	N74-30886 *	US-PATENT-CLASS-356-28.5	c 33	N89-14385 *
US-PATENT-CLASS-350-580	c 74	N86-20125 *	US-PATENT-CLASS-356-147	c 74	N77-22951 *	US-PATENT-CLASS-356-28	c 21	N71-19212 *
US-PATENT-CLASS-350-58	c 14	N71-15604 *	US-PATENT-CLASS-356-148	c 89	N74-30886 *	US-PATENT-CLASS-356-28	c 16	N71-24828 *
US-PATENT-CLASS-350-6.5	c 32	N80-24510 *	US-PATENT-CLASS-356-150	c 16	N73-33397 *	US-PATENT-CLASS-356-28	c 72	N74-19310 *
US-PATENT-CLASS-350-6.5	c 74	N87-21679 *	US-PATENT-CLASS-356-150	c 15	N71-28740 *	US-PATENT-CLASS-356-28	c 36	N75-15028 *
US-PATENT-CLASS-350-6.6	c 32	N80-24510 *	US-PATENT-CLASS-356-150	c 74	N80-21138 *	US-PATENT-CLASS-356-28	c 35	N75-16783 *
US-PATENT-CLASS-350-619	c 74	N85-23396 *	US-PATENT-CLASS-356-152	c 15	N71-28740 *	US-PATENT-CLASS-356-28	c 36	N76-14447 *
US-PATENT-CLASS-350-6	c 14	N69-27461 *	US-PATENT-CLASS-356-152	c 16	N72-13437 *	US-PATENT-CLASS-356-28	c 36	N77-25501 *
US-PATENT-CLASS-350-6	c 36	N74-15145 *	US-PATENT-CLASS-356-152	c 14	N72-20379 *	US-PATENT-CLASS-356-28	c 74	N78-17866 *
US-PATENT-CLASS-350-79	c 14	N72-32452 *	US-PATENT-CLASS-356-152	c 14	N72-27409 *	US-PATENT-CLASS-356-28	c 35	N79-18296 *
US-PATENT-CLASS-350-7	c 74	N74-15095 *	US-PATENT-CLASS-356-152	c 14	N73-25462 *	US-PATENT-CLASS-356-28	c 36	N80-16321 *
US-PATENT-CLASS-350-86	c 14	N72-22445 *	US-PATENT-CLASS-356-152	c 36	N74-15145 *	US-PATENT-CLASS-356-28	c 36	N87-17026 *
US-PATENT-CLASS-350-96.10	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 36	N74-21091 *	US-PATENT-CLASS-356-300	c 43	N79-17288 *
US-PATENT-CLASS-350-96.15	c 74	N84-11921 *	US-PATENT-CLASS-356-152	c 74	N74-21304 *	US-PATENT-CLASS-356-301	c 35	N87-14669 *
US-PATENT-CLASS-350-96.15	c 74	N85-29749 *	US-PATENT-CLASS-356-152	c 74	N77-22951 *	US-PATENT-CLASS-356-311	c 35	N86-25753 *
US-PATENT-CLASS-350-96.16	c 74	N83-29032 *	US-PATENT-CLASS-356-152	c 74	N80-21138 *	US-PATENT-CLASS-356-318	c 35	N86-25753 *
US-PATENT-CLASS-350-96.21	c 74	N89-25689 *	US-PATENT-CLASS-356-152	c 37	N81-27519 *	US-PATENT-CLASS-356-323	c 74	N85-23396 *
US-PATENT-CLASS-350-96.25	c 33	N81-29342 *	US-PATENT-CLASS-356-153	c 15	N71-28740 *	US-PATENT-CLASS-356-328	c 35	N80-26635 *
US-PATENT-CLASS-350-96.25	c 74	N89-25689 *	US-PATENT-CLASS-356-153	c 23	N71-29125 *	US-PATENT-CLASS-356-32	c 14	N72-11364 *
US-PATENT-CLASS-350-96R	c 60	N77-14751 *	US-PATENT-CLASS-356-153	c 16	N73-33397 *	US-PATENT-CLASS-356-32	c 32	N73-20740 *
US-PATENT-CLASS-350-96R	c 60	N77-32731 *	US-PATENT-CLASS-356-154	c 18	N76-14186 *	US-PATENT-CLASS-356-32	c 39	N81-25400 *
US-PATENT-CLASS-350-96R	c 60	N78-10709 *	US-PATENT-CLASS-356-154	c 15	N71-26673 *	US-PATENT-CLASS-356-330	c 74	N85-23396 *
US-PATENT-CLASS-350-96WG	c 36	N75-31427 *	US-PATENT-CLASS-356-159	c 36	N78-14380 *	US-PATENT-CLASS-356-331	c 74	N85-23396 *
US-PATENT-CLASS-350-96WG	c 36	N76-18428 *	US-PATENT-CLASS-356-160	c 36	N78-14380 *	US-PATENT-CLASS-356-334	c 74	N80-21140 *
US-PATENT-CLASS-350-96WG	c 36	N76-24553 *	US-PATENT-CLASS-356-161	c 26	N73-26751 *	US-PATENT-CLASS-356-345	c 74	N81-17888 *
US-PATENT-CLASS-350-96	c 07	N71-26291 *	US-PATENT-CLASS-356-162	c 36	N76-19888 *	US-PATENT-CLASS-356-345	c 74	N81-29963 *
US-PATENT-CLASS-351-166	c 74	N78-32854 *	US-PATENT-CLASS-356-165	c 68	N78-17396 *	US-PATENT-CLASS-356-345	c 36	N84-14509 *
US-PATENT-CLASS-351-203	c 52	N89-16256 *	US-PATENT-CLASS-356-166	c 14	N71-23175 *	US-PATENT-CLASS-356-346	c 74	N86-21348 *
US-PATENT-CLASS-351-206	c 52	N87-24874 *	US-PATENT-CLASS-356-167	c 14	N72-11364 *	US-PATENT-CLASS-356-346	c 35	N80-20563 *
US-PATENT-CLASS-351-208	c 52	N87-24874 *	US-PATENT-CLASS-356-167	c 66	N76-19888 *	US-PATENT-CLASS-356-346	c 74	N81-29963 *
US-PATENT-CLASS-351-237	c 52	N89-16256 *	US-PATENT-CLASS-356-167	c 74	N78-27904 *	US-PATENT-CLASS-356-347	c 35	N84-22929 *
US-PATENT-CLASS-351-23	c 05	N73-26072 *	US-PATENT-CLASS-356-169	c 60	N78-10709 *	US-PATENT-CLASS-356-347	c 35	N89-26202 *

US-PATENT-CLASS-356-349	c 36	N82-16396 *	US-PATENT-CLASS-357-23	c 76	N75-25730 *	US-PATENT-CLASS-358-105	c 17	N87-25348 *
US-PATENT-CLASS-356-350	c 35	N81-33448 *	US-PATENT-CLASS-357-23	c 33	N79-12321 *	US-PATENT-CLASS-358-106	c 39	N78-16387 *
US-PATENT-CLASS-356-350	c 74	N87-23259 *	US-PATENT-CLASS-357-23	c 33	N81-26360 *	US-PATENT-CLASS-358-107	c 35	N79-18296 *
US-PATENT-CLASS-356-351	c 35	N81-33448 *	US-PATENT-CLASS-357-24	c 33	N75-31331 *	US-PATENT-CLASS-358-107	c 36	N88-24958 *
US-PATENT-CLASS-356-351	c 35	N85-30282 *	US-PATENT-CLASS-357-24	c 33	N88-14271 *	US-PATENT-CLASS-358-109	c 32	N79-20297 *
US-PATENT-CLASS-356-352	c 74	N81-17888 *	US-PATENT-CLASS-357-29	c 76	N75-25730 *	US-PATENT-CLASS-358-109	c 33	N81-33403 *
US-PATENT-CLASS-356-353	c 74	N83-32577 *	US-PATENT-CLASS-357-29	c 35	N84-33765 *	US-PATENT-CLASS-358-109	c 43	N82-13465 *
US-PATENT-CLASS-356-356	c 36	N81-24422 *	US-PATENT-CLASS-357-29	c 76	N87-13313 *	US-PATENT-CLASS-358-109	c 36	N83-34304 *
US-PATENT-CLASS-356-357	c 74	N83-21949 *	US-PATENT-CLASS-357-30	c 44	N76-28635 *	US-PATENT-CLASS-358-109	c 32	N85-29117 *
US-PATENT-CLASS-356-358	c 74	N81-17888 *	US-PATENT-CLASS-357-30	c 44	N78-13526 *	US-PATENT-CLASS-358-111	c 52	N79-10724 *
US-PATENT-CLASS-356-358	c 36	N81-24422 *	US-PATENT-CLASS-357-30	c 44	N78-24609 *	US-PATENT-CLASS-358-125	c 74	N84-23247 *
US-PATENT-CLASS-356-358	c 35	N85-30282 *	US-PATENT-CLASS-357-30	c 44	N78-25527 *	US-PATENT-CLASS-358-125	c 74	N86-21348 *
US-PATENT-CLASS-356-361	c 35	N89-26202 *	US-PATENT-CLASS-357-30	c 44	N79-11467 *	US-PATENT-CLASS-358-133	c 32	N77-24328 *
US-PATENT-CLASS-356-363	c 74	N83-32577 *	US-PATENT-CLASS-357-30	c 44	N79-14528 *	US-PATENT-CLASS-358-133	c 32	N85-29117 *
US-PATENT-CLASS-356-369	c 35	N80-28687 *	US-PATENT-CLASS-357-30	c 44	N79-31752 *	US-PATENT-CLASS-358-133	c 17	N87-25348 *
US-PATENT-CLASS-356-366	c 23	N71-16365 *	US-PATENT-CLASS-357-30	c 44	N80-29835 *	US-PATENT-CLASS-358-138	c 32	N77-24328 *
US-PATENT-CLASS-356-376	c 36	N88-24958 *	US-PATENT-CLASS-357-30	c 44	N81-19558 *	US-PATENT-CLASS-358-138	c 17	N87-25348 *
US-PATENT-CLASS-356-37	c 45	N76-21742 *	US-PATENT-CLASS-357-30	c 44	N81-29525 *	US-PATENT-CLASS-358-142	c 74	N78-14889 *
US-PATENT-CLASS-356-386	c 36	N82-16396 *	US-PATENT-CLASS-357-30	c 44	N82-26777 *	US-PATENT-CLASS-358-161	c 32	N85-21427 *
US-PATENT-CLASS-356-389	c 33	N87-14594 *	US-PATENT-CLASS-357-30	c 44	N82-29709 *	US-PATENT-CLASS-358-168	c 32	N86-20647 *
US-PATENT-CLASS-356-394	c 33	N83-18996 *	US-PATENT-CLASS-357-30	c 44	N82-31764 *	US-PATENT-CLASS-358-174	c 32	N85-21427 *
US-PATENT-CLASS-356-4.5	c 74	N86-21348 *	US-PATENT-CLASS-357-30	c 44	N83-13579 *	US-PATENT-CLASS-358-213	c 33	N81-33403 *
US-PATENT-CLASS-356-4.5	c 74	N86-32266 *	US-PATENT-CLASS-357-30	c 44	N83-32177 *	US-PATENT-CLASS-358-213	c 33	N82-24416 *
US-PATENT-CLASS-356-402	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 35	N84-33765 *	US-PATENT-CLASS-358-213	c 74	N84-23247 *
US-PATENT-CLASS-356-404	c 35	N79-28527 *	US-PATENT-CLASS-357-30	c 33	N85-21492 *	US-PATENT-CLASS-358-217	c 32	N85-21427 *
US-PATENT-CLASS-356-406	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 44	N85-21768 *	US-PATENT-CLASS-358-219	c 32	N85-21427 *
US-PATENT-CLASS-356-407	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N85-30475 *	US-PATENT-CLASS-358-222	c 74	N86-28732 *
US-PATENT-CLASS-356-407	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 33	N86-19516 *	US-PATENT-CLASS-358-225	c 74	N78-17865 *
US-PATENT-CLASS-356-409	c 36	N87-28006 *	US-PATENT-CLASS-357-30	c 76	N86-20150 *	US-PATENT-CLASS-358-36	c 32	N75-21485 *
US-PATENT-CLASS-356-416	c 43	N79-17288 *	US-PATENT-CLASS-357-30	c 44	N86-32875 *	US-PATENT-CLASS-358-41	c 74	N78-17865 *
US-PATENT-CLASS-356-416	c 52	N81-27783 *	US-PATENT-CLASS-357-30	c 76	N87-13313 *	US-PATENT-CLASS-358-44	c 74	N77-18893 *
US-PATENT-CLASS-356-419	c 74	N86-29650 *	US-PATENT-CLASS-357-30	c 33	N87-23879 *	US-PATENT-CLASS-358-55	c 74	N78-17865 *
US-PATENT-CLASS-356-432	c 74	N81-17887 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-81	c 32	N79-20297 *
US-PATENT-CLASS-356-432	c 25	N81-25159 *	US-PATENT-CLASS-357-30	c 33	N88-14271 *	US-PATENT-CLASS-358-88	c 74	N86-21348 *
US-PATENT-CLASS-356-434	c 35	N84-34705 *	US-PATENT-CLASS-357-30	c 76	N88-14836 *	US-PATENT-CLASS-358-88	c 32	N89-28676 *
US-PATENT-CLASS-356-437	c 25	N81-14015 *	US-PATENT-CLASS-357-30	c 35	N90-17118 *	US-PATENT-CLASS-358-91	c 32	N89-28676 *
US-PATENT-CLASS-356-43	c 74	N74-15095 *	US-PATENT-CLASS-357-32	c 35	N84-33765 *	US-PATENT-CLASS-358-92	c 32	N89-28676 *
US-PATENT-CLASS-356-43	c 75	N74-30156 *	US-PATENT-CLASS-357-35	c 33	N87-23879 *	US-PATENT-CLASS-358-96	c 52	N79-10724 *
US-PATENT-CLASS-356-43	c 36	N85-21639 *	US-PATENT-CLASS-357-40	c 36	N85-30305 *	US-PATENT-CLASS-36-119	c 54	N78-17675 *
US-PATENT-CLASS-356-43	c 36	N90-17132 *	US-PATENT-CLASS-357-41	c 33	N79-12321 *	US-PATENT-CLASS-36-92	c 54	N78-17675 *
US-PATENT-CLASS-356-446	c 74	N86-26190 *	US-PATENT-CLASS-357-42	c 76	N75-25730 *	US-PATENT-CLASS-360-101	c 35	N76-16391 *
US-PATENT-CLASS-356-45	c 36	N85-21639 *	US-PATENT-CLASS-357-45	c 33	N79-12321 *	US-PATENT-CLASS-360-101	c 35	N76-16391 *
US-PATENT-CLASS-356-4	c 14	N72-17326 *	US-PATENT-CLASS-357-45	c 44	N79-26475 *	US-PATENT-CLASS-360-25	c 35	N77-17426 *
US-PATENT-CLASS-356-4	c 07	N73-26119 *	US-PATENT-CLASS-357-46	c 36	N85-30305 *	US-PATENT-CLASS-360-26	c 33	N76-18353 *
US-PATENT-CLASS-356-4	c 36	N74-15145 *	US-PATENT-CLASS-357-4	c 33	N78-13320 *	US-PATENT-CLASS-360-31	c 35	N77-17426 *
US-PATENT-CLASS-356-4	c 35	N75-15014 *	US-PATENT-CLASS-357-4	c 76	N85-30922 *	US-PATENT-CLASS-360-35	c 35	N76-16391 *
US-PATENT-CLASS-356-4	c 36	N83-34304 *	US-PATENT-CLASS-357-4	c 35	N90-17118 *	US-PATENT-CLASS-360-51	c 33	N76-18353 *
US-PATENT-CLASS-356-4	c 36	N88-24958 *	US-PATENT-CLASS-357-50	c 76	N85-30922 *	US-PATENT-CLASS-360-9	c 35	N76-16391 *
US-PATENT-CLASS-356-51	c 06	N72-31141 *	US-PATENT-CLASS-357-52	c 76	N75-25730 *	US-PATENT-CLASS-361-100	c 33	N83-34190 *
US-PATENT-CLASS-356-51	c 35	N75-30502 *	US-PATENT-CLASS-357-52	c 44	N80-29835 *	US-PATENT-CLASS-361-141	c 33	N82-11357 *
US-PATENT-CLASS-356-51	c 35	N83-21311 *	US-PATENT-CLASS-357-54	c 76	N87-13313 *	US-PATENT-CLASS-361-170	c 33	N79-28415 *
US-PATENT-CLASS-356-51	c 35	N84-34705 *	US-PATENT-CLASS-357-54	c 76	N75-25730 *	US-PATENT-CLASS-361-218	c 03	N88-14083 *
US-PATENT-CLASS-356-51	c 36	N87-28006 *	US-PATENT-CLASS-357-55	c 33	N79-12321 *	US-PATENT-CLASS-361-222	c 03	N88-14083 *
US-PATENT-CLASS-356-5	c 07	N73-26119 *	US-PATENT-CLASS-357-55	c 33	N81-26360 *	US-PATENT-CLASS-361-226	c 28	N82-18401 *
US-PATENT-CLASS-356-5	c 36	N74-15145 *	US-PATENT-CLASS-357-56	c 33	N88-14271 *	US-PATENT-CLASS-361-230	c 28	N82-18401 *
US-PATENT-CLASS-356-5	c 36	N75-15028 *	US-PATENT-CLASS-357-58	c 33	N86-19516 *	US-PATENT-CLASS-361-283	c 33	N82-26572 *
US-PATENT-CLASS-356-5	c 32	N82-23376 *	US-PATENT-CLASS-357-59	c 44	N76-28635 *	US-PATENT-CLASS-361-334	c 35	N81-26431 *
US-PATENT-CLASS-356-5	c 74	N85-34629 *	US-PATENT-CLASS-357-59	c 44	N78-24609 *	US-PATENT-CLASS-361-395	c 32	N78-24391 *
US-PATENT-CLASS-356-5	c 74	N86-32266 *	US-PATENT-CLASS-357-59	c 44	N81-19558 *	US-PATENT-CLASS-361-56	c 33	N81-27397 *
US-PATENT-CLASS-356-5	c 32	N87-14559 *	US-PATENT-CLASS-357-59	c 33	N86-19516 *	US-PATENT-CLASS-361-91	c 33	N81-27397 *
US-PATENT-CLASS-356-71	c 66	N76-19888 *	US-PATENT-CLASS-357-5	c 33	N75-31332 *	US-PATENT-CLASS-362-11	c 74	N81-17886 *
US-PATENT-CLASS-356-72	c 14	N71-23268 *	US-PATENT-CLASS-357-5	c 33	N78-13320 *	US-PATENT-CLASS-362-241	c 74	N81-17886 *
US-PATENT-CLASS-356-72	c 33	N73-27796 *	US-PATENT-CLASS-357-60	c 33	N81-26360 *	US-PATENT-CLASS-362-269	c 17	N78-17140 *
US-PATENT-CLASS-356-72	c 38	N78-32447 *	US-PATENT-CLASS-357-61	c 33	N88-14271 *	US-PATENT-CLASS-363-100	c 33	N85-29147 *
US-PATENT-CLASS-356-72	c 74	N80-33210 *	US-PATENT-CLASS-357-61	c 35	N90-17118 *	US-PATENT-CLASS-363-101	c 33	N78-32341 *
US-PATENT-CLASS-356-72	c 35	N86-32697 *	US-PATENT-CLASS-357-63	c 33	N76-31409 *	US-PATENT-CLASS-363-101	c 33	N81-19392 *
US-PATENT-CLASS-356-73	c 75	N74-30156 *	US-PATENT-CLASS-357-63	c 44	N81-19558 *	US-PATENT-CLASS-363-132	c 33	N82-18494 *
US-PATENT-CLASS-356-73	c 38	N78-32447 *	US-PATENT-CLASS-357-63	c 44	N82-26777 *	US-PATENT-CLASS-363-134	c 33	N79-24257 *
US-PATENT-CLASS-356-73	c 35	N84-33766 *	US-PATENT-CLASS-357-65	c 44	N78-25527 *	US-PATENT-CLASS-363-147	c 44	N81-12542 *
US-PATENT-CLASS-356-73	c 09	N86-32447 *	US-PATENT-CLASS-357-65	c 44	N79-11467 *	US-PATENT-CLASS-363-16	c 33	N78-32341 *
US-PATENT-CLASS-356-73	c 35	N86-32697 *	US-PATENT-CLASS-357-65	c 44	N79-31752 *	US-PATENT-CLASS-363-17	c 33	N82-18494 *
US-PATENT-CLASS-356-74	c 30	N71-15990 *	US-PATENT-CLASS-357-65	c 33	N88-14271 *	US-PATENT-CLASS-363-19	c 33	N85-29147 *
US-PATENT-CLASS-356-74	c 35	N84-33766 *	US-PATENT-CLASS-357-67	c 44	N78-25527 *	US-PATENT-CLASS-363-21	c 33	N81-19392 *
US-PATENT-CLASS-356-76	c 23	N71-26206 *	US-PATENT-CLASS-357-67	c 44	N79-11467 *	US-PATENT-CLASS-363-21	c 33	N81-19393 *
US-PATENT-CLASS-356-76	c 14	N71-29041 *	US-PATENT-CLASS-357-72	c 33	N79-31752 *	US-PATENT-CLASS-363-22	c 33	N84-33663 *
US-PATENT-CLASS-356-83	c 35	N75-19613 *	US-PATENT-CLASS-357-73	c 33	N88-23941 *	US-PATENT-CLASS-363-23	c 33	N85-29147 *
US-PATENT-CLASS-356-85	c 37	N74-18123 *	US-PATENT-CLASS-357-73	c 33	N78-13320 *	US-PATENT-CLASS-363-24	c 33	N81-33404 *
US-PATENT-CLASS-356-85	c 75	N74-30156 *	US-PATENT-CLASS-357-74	c 37	N79-28549 *	US-PATENT-CLASS-363-25	c 33	N84-16453 *
US-PATENT-CLASS-356-87	c 75	N74-30156 *	US-PATENT-CLASS-357-74	c 33	N88-23941 *	US-PATENT-CLASS-363-27	c 44	N81-12542 *
US-PATENT-CLASS-356-96	c 35	N75-19613 *	US-PATENT-CLASS-357-79	c 37	N79-28549 *	US-PATENT-CLASS-363-36	c 33	N81-19393 *
US-PATENT-CLASS-356-97	c 35	N77-14411 *	US-PATENT-CLASS-357-7	c 33	N75-31331 *	US-PATENT-CLASS-363-40	c 33	N81-19393 *
US-PATENT-CLASS-357-12	c 33	N85-21492 *	US-PATENT-CLASS-357-81	c 37	N79-28549 *	US-PATENT-CLASS-363-47	c 33	N81-19393 *
US-PATENT-CLASS-357-13	c 35	N90-17118 *	US-PATENT-CLASS-357-81	c 33	N88-23941 *	US-PATENT-CLASS-363-49	c 33	N84-33663 *
US-PATENT-CLASS-357-15	c 44	N78-13526 *	US-PATENT-CLASS-357-82	c 37	N79-28549 *	US-PATENT-CLASS-363-53	c 33	N77-30365 *
US-PATENT-CLASS-357-15	c 44	N79-11467 *	US-PATENT-CLASS-357-83	c 37	N79-28549 *	US-PATENT-CLASS-363-54	c 33	N83-34190 *
US-PATENT-CLASS-357-15	c 44	N81-29525 *	US-PATENT-CLASS-357-91	c 76	N75-25730 *	US-PATENT-CLASS-363-56	c 33	N79-24254 *
US-PATENT-CLASS-357-15	c 76	N86-20150 *	US-PATENT-CLASS-357-91	c 33	N78-27326 *	US-PATENT-CLASS-363-56	c 33	N81-14220 *
US-PATENT-CLASS-357-16	c 44	N78-13526 *	US-PATENT-CLASS-357-91	c 44	N80-29835 *	US-PATENT-CLASS-363-56	c 33	N81-33404 *
US-PATENT-CLASS-357-16	c 44	N79-11467 *	US-PATENT-CLASS-357-91	c 33	N81-26360 *	US-PATENT-CLASS-363-57	c 33	N78-10377 *
US-PATENT-CLASS-357-17	c 36	N85-30305 *	US-PATENT-CLASS-357-91	c 44	N86-32875 *	US-PATENT-CLASS-363-60	c 33	N78-32341 *
US-PATENT-CLASS-357-22	c 33	N79-11314 *	US-PATENT-CLASS-358-101	c 37	N86-21850 *	US-PATENT-CLASS-363-60	c 44	N81-12542 *
US-PATENT-CLASS-357-22	c 33	N79-12321 *	US-PATENT-CLASS-358-104	c 09	N78-18083 *	US-PATENT-CLASS-363-61	c 33	N82-18494 *
US-PATENT-CLASS-357-23.12	c 76	N87-13313 *	US-PATENT-CLASS-358-104	c 74	N79-13855 *	US-PATENT-CLASS-363-61	c 33	N85-29147 *
US-PATENT-CLASS-357-23.1	c 76	N87-13313 *	US-PATENT-CLASS-358-104	c 36	N83-34304 *	US-PATENT-CLASS-363-65	c 33	N84-16453 *
US-PATENT-CLASS-357-23.6	c 33	N86-19516 *	US-PATENT-CLASS-358-105	c 39	N83-20280 *	US-PATENT-CLASS-363-67	c 33	N84-16453 *
US-PATENT-CLASS-357-231	c 33	N88-14271 *	US-PATENT-CLASS-358-105	c 74	N86-21348 *	US-PATENT-CLASS-363-70	c 33	N77-30365 *

US-PATENT-CLASS-363-71	c 33	N79-24254 *	US-PATENT-CLASS-367-88	c 43	N86-19711 *	US-PATENT-CLASS-375-115	c 32	N81-15179 *
US-PATENT-CLASS-363-71	c 33	N79-24257 *	US-PATENT-CLASS-367-908	c 35	N89-14407 *	US-PATENT-CLASS-375-116	c 60	N82-16747 *
US-PATENT-CLASS-363-71	c 33	N81-14220 *	US-PATENT-CLASS-367-95	c 32	N82-23376 *	US-PATENT-CLASS-375-120	c 32	N84-27952 *
US-PATENT-CLASS-363-71	c 33	N84-16453 *	US-PATENT-CLASS-367-99	c 32	N87-14559 *	US-PATENT-CLASS-375-120	c 32	N87-21207 *
US-PATENT-CLASS-363-71	c 33	N85-29147 *	US-PATENT-CLASS-368-184	c 33	N83-36357 *	US-PATENT-CLASS-375-120	c 33	N87-25531 *
US-PATENT-CLASS-363-78	c 33	N81-14220 *	US-PATENT-CLASS-368-200	c 33	N83-36357 *	US-PATENT-CLASS-375-1	c 32	N81-15179 *
US-PATENT-CLASS-363-87	c 33	N83-10345 *	US-PATENT-CLASS-368-201	c 33	N83-36357 *	US-PATENT-CLASS-375-1	c 35	N81-19427 *
US-PATENT-CLASS-363-89	c 33	N78-10377 *	US-PATENT-CLASS-368-47	c 33	N81-14221 *	US-PATENT-CLASS-375-1	c 33	N81-33405 *
US-PATENT-CLASS-363-95	c 33	N79-24257 *	US-PATENT-CLASS-37N	c 27	N81-15104 *	US-PATENT-CLASS-375-23	c 32	N87-21207 *
US-PATENT-CLASS-363-97	c 33	N79-24254 *	US-PATENT-CLASS-370-100	c 60	N82-16747 *	US-PATENT-CLASS-375-34	c 35	N81-19427 *
US-PATENT-CLASS-363-97	c 09	N88-28939 *	US-PATENT-CLASS-370-16	c 62	N90-19776 *	US-PATENT-CLASS-375-39	c 32	N87-25511 *
US-PATENT-CLASS-364-106	c 07	N81-19115 *	US-PATENT-CLASS-370-58	c 60	N81-27814 *	US-PATENT-CLASS-375-54	c 33	N81-15192 *
US-PATENT-CLASS-364-120	c 52	N79-12694 *	US-PATENT-CLASS-370-67	c 33	N82-29538 *	US-PATENT-CLASS-375-54	c 32	N87-25511 *
US-PATENT-CLASS-364-131	c 60	N89-26400 *	US-PATENT-CLASS-370-85	c 33	N81-14221 *	US-PATENT-CLASS-375-54	c 33	N87-25531 *
US-PATENT-CLASS-364-200	c 62	N81-24779 *	US-PATENT-CLASS-371-20	c 33	N81-26359 *	US-PATENT-CLASS-375-58	c 32	N81-15179 *
US-PATENT-CLASS-364-200	c 60	N81-27814 *	US-PATENT-CLASS-371-25	c 33	N81-26359 *	US-PATENT-CLASS-375-59	c 33	N87-25531 *
US-PATENT-CLASS-364-200	c 60	N83-25378 *	US-PATENT-CLASS-371-37	c 60	N87-21591 *	US-PATENT-CLASS-375-67	c 33	N81-15192 *
US-PATENT-CLASS-364-200	c 60	N83-32342 *	US-PATENT-CLASS-371-40	c 60	N87-21591 *	US-PATENT-CLASS-375-76	c 33	N87-25531 *
US-PATENT-CLASS-364-200	c 32	N85-21428 *	US-PATENT-CLASS-371-43	c 33	N87-25531 *	US-PATENT-CLASS-375-77	c 32	N84-27952 *
US-PATENT-CLASS-364-200	c 60	N85-21992 *	US-PATENT-CLASS-371-63	c 17	N87-16863 *	US-PATENT-CLASS-375-81	c 32	N84-27952 *
US-PATENT-CLASS-364-200	c 60	N88-29310 *	US-PATENT-CLASS-371-68	c 60	N82-29013 *	US-PATENT-CLASS-375-88	c 17	N87-16863 *
US-PATENT-CLASS-364-300	c 52	N79-12694 *	US-PATENT-CLASS-371-6	c 32	N83-13323 *	US-PATENT-CLASS-375-99	c 35	N81-19427 *
US-PATENT-CLASS-364-400	c 33	N85-29142 *	US-PATENT-CLASS-371-8	c 62	N90-19776 *	US-PATENT-CLASS-376-127	c 72	N87-21661 *
US-PATENT-CLASS-364-413	c 39	N83-20280 *	US-PATENT-CLASS-372-100	c 36	N84-14509 *	US-PATENT-CLASS-376-159	c 25	N85-21279 *
US-PATENT-CLASS-364-415	c 52	N79-12694 *	US-PATENT-CLASS-372-103	c 36	N84-28065 *	US-PATENT-CLASS-377-39	c 33	N89-14385 *
US-PATENT-CLASS-364-415	c 35	N84-12445 *	US-PATENT-CLASS-372-103	c 36	N87-23960 *	US-PATENT-CLASS-378-104	c 33	N85-29147 *
US-PATENT-CLASS-364-417	c 52	N79-10724 *	US-PATENT-CLASS-372-108	c 36	N84-14509 *	US-PATENT-CLASS-378-112	c 33	N85-29147 *
US-PATENT-CLASS-364-431	c 07	N81-19115 *	US-PATENT-CLASS-372-18	c 36	N87-23960 *	US-PATENT-CLASS-378-2	c 34	N83-19015 *
US-PATENT-CLASS-364-433	c 06	N86-27280 *	US-PATENT-CLASS-372-20	c 36	N84-22943 *	US-PATENT-CLASS-378-2	c 74	N84-19201 *
US-PATENT-CLASS-364-434	c 08	N79-23097 *	US-PATENT-CLASS-372-20	c 36	N87-25567 *	US-PATENT-CLASS-378-43	c 34	N81-19015 *
US-PATENT-CLASS-364-434	c 08	N81-24106 *	US-PATENT-CLASS-372-25	c 33	N83-34189 *	US-PATENT-CLASS-378-43	c 74	N86-20124 *
US-PATENT-CLASS-364-435	c 06	N86-27280 *	US-PATENT-CLASS-372-28	c 36	N84-22943 *	US-PATENT-CLASS-378-58	c 74	N86-20126 *
US-PATENT-CLASS-364-452	c 04	N84-27713 *	US-PATENT-CLASS-372-32	c 36	N84-22943 *	US-PATENT-CLASS-378-59	c 74	N86-20126 *
US-PATENT-CLASS-364-453	c 18	N81-29152 *	US-PATENT-CLASS-372-32	c 33	N85-34333 *	US-PATENT-CLASS-378-85	c 74	N86-20124 *
US-PATENT-CLASS-364-453	c 33	N85-29142 *	US-PATENT-CLASS-372-38	c 36	N85-30305 *	US-PATENT-CLASS-381-183	c 54	N89-29953 *
US-PATENT-CLASS-364-458	c 32	N79-14267 *	US-PATENT-CLASS-372-43	c 36	N87-23960 *	US-PATENT-CLASS-381-187	c 54	N89-29953 *
US-PATENT-CLASS-364-481	c 33	N90-19492 *	US-PATENT-CLASS-372-46	c 36	N85-30305 *	US-PATENT-CLASS-382-31	c 74	N89-14078 *
US-PATENT-CLASS-364-482	c 33	N90-19492 *	US-PATENT-CLASS-372-4	c 36	N84-28065 *	US-PATENT-CLASS-382-41	c 60	N89-26400 *
US-PATENT-CLASS-364-484	c 33	N89-14385 *	US-PATENT-CLASS-372-4	c 36	N87-25567 *	US-PATENT-CLASS-382-42	c 74	N86-21348 *
US-PATENT-CLASS-364-500	c 25	N88-29002 *	US-PATENT-CLASS-372-50	c 36	N85-30305 *	US-PATENT-CLASS-382-42	c 60	N88-24169 *
US-PATENT-CLASS-364-510	c 34	N81-26402 *	US-PATENT-CLASS-372-55	c 36	N84-16542 *	US-PATENT-CLASS-382-42	c 60	N89-26400 *
US-PATENT-CLASS-364-514	c 33	N81-33405 *	US-PATENT-CLASS-372-56	c 36	N82-28616 *	US-PATENT-CLASS-382-49	c 60	N89-26400 *
US-PATENT-CLASS-364-522	c 39	N83-20280 *	US-PATENT-CLASS-372-56	c 36	N83-10417 *	US-PATENT-CLASS-384-101	c 37	N85-33490 *
US-PATENT-CLASS-364-556	c 36	N85-29264 *	US-PATENT-CLASS-372-58	c 36	N82-28616 *	US-PATENT-CLASS-384-103	c 37	N86-19606 *
US-PATENT-CLASS-364-557	c 35	N84-14491 *	US-PATENT-CLASS-372-59	c 36	N83-10417 *	US-PATENT-CLASS-384-106	c 37	N86-19606 *
US-PATENT-CLASS-364-557	c 25	N88-29002 *	US-PATENT-CLASS-372-60	c 36	N83-10417 *	US-PATENT-CLASS-384-124	c 27	N83-34043 *
US-PATENT-CLASS-364-558	c 35	N84-14491 *	US-PATENT-CLASS-372-61	c 74	N87-14971 *	US-PATENT-CLASS-384-99	c 37	N85-33490 *
US-PATENT-CLASS-364-558	c 07	N84-22559 *	US-PATENT-CLASS-372-68	c 36	N87-23961 *	US-PATENT-CLASS-39-25.35	c 33	N86-20671 *
US-PATENT-CLASS-364-559	c 39	N83-20280 *	US-PATENT-CLASS-372-69	c 36	N87-25567 *	US-PATENT-CLASS-4-10	c 54	N74-20725 *
US-PATENT-CLASS-364-560	c 43	N79-26439 *	US-PATENT-CLASS-372-71	c 36	N84-28065 *	US-PATENT-CLASS-4-110	c 05	N72-22093 *
US-PATENT-CLASS-364-561	c 36	N88-24958 *	US-PATENT-CLASS-372-74	c 35	N84-12444 *	US-PATENT-CLASS-4-120	c 54	N74-20725 *
US-PATENT-CLASS-364-566	c 18	N81-29152 *	US-PATENT-CLASS-372-79	c 36	N84-16542 *	US-PATENT-CLASS-4-144.3	c 52	N81-24711 *
US-PATENT-CLASS-364-571	c 34	N81-26402 *	US-PATENT-CLASS-372-79	c 36	N86-29204 *	US-PATENT-CLASS-4-144.3	c 52	N81-28740 *
US-PATENT-CLASS-364-571	c 35	N84-14491 *	US-PATENT-CLASS-372-81	c 36	N87-23961 *	US-PATENT-CLASS-4-498	c 44	N84-34792 *
US-PATENT-CLASS-364-571	c 33	N85-34333 *	US-PATENT-CLASS-372-82	c 36	N82-28616 *	US-PATENT-CLASS-4-99	c 05	N72-22093 *
US-PATENT-CLASS-364-571	c 25	N88-29002 *	US-PATENT-CLASS-372-83	c 36	N84-14509 *	US-PATENT-CLASS-40-28	c 12	N71-18603 *
US-PATENT-CLASS-364-578	c 33	N85-34333 *	US-PATENT-CLASS-372-93	c 36	N84-28065 *	US-PATENT-CLASS-403-102	c 37	N85-30336 *
US-PATENT-CLASS-364-604	c 32	N79-14267 *	US-PATENT-CLASS-372-94	c 36	N84-14509 *	US-PATENT-CLASS-403-102	c 18	N87-14373 *
US-PATENT-CLASS-364-713	c 32	N79-20297 *	US-PATENT-CLASS-372-95	c 36	N84-28065 *	US-PATENT-CLASS-403-105	c 37	N79-14382 *
US-PATENT-CLASS-364-717	c 32	N82-31583 *	US-PATENT-CLASS-372-98	c 36	N84-14509 *	US-PATENT-CLASS-403-113	c 37	N86-19605 *
US-PATENT-CLASS-364-723	c 60	N85-33701 *	US-PATENT-CLASS-372-99	c 36	N87-25567 *	US-PATENT-CLASS-403-119	c 18	N87-14373 *
US-PATENT-CLASS-364-724.01	c 33	N89-28713 *	US-PATENT-CLASS-373-10	c 35	N87-23944 *	US-PATENT-CLASS-403-120	c 37	N86-19605 *
US-PATENT-CLASS-364-724.05	c 33	N89-28713 *	US-PATENT-CLASS-373-15	c 35	N87-23944 *	US-PATENT-CLASS-403-143	c 18	N85-29991 *
US-PATENT-CLASS-364-728	c 32	N79-14267 *	US-PATENT-CLASS-374-115	c 35	N86-19580 *	US-PATENT-CLASS-403-146	c 18	N87-14373 *
US-PATENT-CLASS-364-728	c 60	N86-21154 *	US-PATENT-CLASS-374-117	c 52	N85-30618 *	US-PATENT-CLASS-403-15	c 37	N85-30334 *
US-PATENT-CLASS-364-728	c 60	N88-24169 *	US-PATENT-CLASS-374-120	c 35	N86-19580 *	US-PATENT-CLASS-403-163	c 18	N87-14373 *
US-PATENT-CLASS-364-735	c 33	N89-28713 *	US-PATENT-CLASS-374-122	c 06	N83-10040 *	US-PATENT-CLASS-403-164	c 54	N86-29507 *
US-PATENT-CLASS-364-754	c 33	N89-28713 *	US-PATENT-CLASS-374-122	c 43	N85-21723 *	US-PATENT-CLASS-403-16	c 37	N85-30334 *
US-PATENT-CLASS-364-757	c 60	N88-24169 *	US-PATENT-CLASS-374-122	c 32	N87-21206 *	US-PATENT-CLASS-403-171	c 31	N81-25258 *
US-PATENT-CLASS-364-822	c 32	N83-18975 *	US-PATENT-CLASS-374-123	c 06	N83-10040 *	US-PATENT-CLASS-403-171	c 31	N86-19479 *
US-PATENT-CLASS-364-822	c 74	N86-21348 *	US-PATENT-CLASS-374-124	c 36	N90-17132 *	US-PATENT-CLASS-403-171	c 37	N88-29180 *
US-PATENT-CLASS-364-825	c 33	N82-24417 *	US-PATENT-CLASS-374-126	c 36	N90-17132 *	US-PATENT-CLASS-403-179	c 27	N76-14264 *
US-PATENT-CLASS-364-853	c 60	N85-33701 *	US-PATENT-CLASS-374-130	c 36	N90-17132 *	US-PATENT-CLASS-403-219	c 37	N82-32732 *
US-PATENT-CLASS-364-861	c 32	N83-18975 *	US-PATENT-CLASS-374-137	c 36	N85-21639 *	US-PATENT-CLASS-403-217	c 37	N88-29180 *
US-PATENT-CLASS-364-900	c 52	N79-12694 *	US-PATENT-CLASS-374-160	c 52	N85-30618 *	US-PATENT-CLASS-403-273	c 37	N77-23482 *
US-PATENT-CLASS-364-900	c 60	N79-20751 *	US-PATENT-CLASS-374-162R	c 74	N82-30071 *	US-PATENT-CLASS-403-282	c 26	N83-10170 *
US-PATENT-CLASS-364-900	c 60	N81-27814 *	US-PATENT-CLASS-374-163	c 35	N86-19580 *	US-PATENT-CLASS-403-28	c 27	N76-14264 *
US-PATENT-CLASS-364-900	c 60	N83-32342 *	US-PATENT-CLASS-374-17	c 35	N83-29650 *	US-PATENT-CLASS-403-28	c 37	N85-29285 *
US-PATENT-CLASS-364-900	c 60	N84-28491 *	US-PATENT-CLASS-374-183	c 33	N86-32624 *	US-PATENT-CLASS-403-30	c 18	N89-28554 *
US-PATENT-CLASS-364-900	c 60	N84-28492 *	US-PATENT-CLASS-374-1	c 35	N84-28019 *	US-PATENT-CLASS-403-312	c 37	N86-27630 *
US-PATENT-CLASS-364-900	c 33	N89-14384 *	US-PATENT-CLASS-374-208	c 37	N85-21651 *	US-PATENT-CLASS-403-315	c 37	N82-24494 *
US-PATENT-CLASS-365-120	c 33	N81-29342 *	US-PATENT-CLASS-374-210	c 37	N85-21651 *	US-PATENT-CLASS-403-317	c 37	N82-32732 *
US-PATENT-CLASS-365-768	c 32	N86-27513 *	US-PATENT-CLASS-374-36	c 25	N88-29002 *	US-PATENT-CLASS-403-317	c 37	N85-21649 *
US-PATENT-CLASS-366-106	c 71	N84-28568 *	US-PATENT-CLASS-374-46	c 34	N83-34221 *	US-PATENT-CLASS-403-322	c 18	N84-22605 *
US-PATENT-CLASS-366-114	c 71	N83-35781 *	US-PATENT-CLASS-374-46	c 25	N86-19413 *	US-PATENT-CLASS-403-322	c 37	N85-30334 *
US-PATENT-CLASS-367-100	c 32	N82-18443 *	US-PATENT-CLASS-374-51	c 39	N83-32081 *	US-PATENT-CLASS-403-322	c 37	N85-30336 *
US-PATENT-CLASS-367-102	c 32	N82-18443 *	US-PATENT-CLASS-374-8	c 25	N86-19413 *	US-PATENT-CLASS-403-322	c 37	N90-17154 *
US-PATENT-CLASS-367-181	c 33	N82-26572 *	US-PATENT-CLASS-374-9	c 32	N87-21206 *	US-PATENT-CLASS-403-325	c 37	N90-17154 *
US-PATENT-CLASS-367-189	c 35	N84-22933 *	US-PATENT-CLASS-375-101	c 32	N87-25511 *	US-PATENT-CLASS-403-328	c 18	N86-20469 *
US-PATENT-CLASS-367-191	c 71	N88-24241 *	US-PATENT-CLASS-375-102	c 32	N87-25511 *	US-PATENT-CLASS-403-328	c 37	N90-17154 *
US-PATENT-CLASS-367-26	c 39	N80-10507 *	US-PATENT-CLASS-375-104	c 35	N81-19427 *	US-PATENT-CLASS-403-331	c 37	N82-32732 *
US-PATENT-CLASS-367-27	c 31	N80-32584 *	US-PATENT-CLASS-375-106	c 60	N82-16747 *	US-PATENT-CLASS-403-340	c 37	N82-32732 *
US-PATENT-CLASS-367-36	c 31	N80-32584 *	US-PATENT-CLASS-375-106	c 32	N83-15883 *	US-PATENT-CLASS-403-341	c 18	N87-27713 *
US-PATENT-CLASS-367-57	c 31	N80-32584 *	US-PATENT-CLASS-375-107	c 32	N81-14186 *	US-PATENT-CLASS-403-348	c 37	N85-30336 *
US-PATENT-CLASS-367-88	c 32	N82-18443 *	US-PATENT-CLASS-375-110	c 32	N87-21207 *	US-PATENT-CLASS-403-388	c 37	N86-27630 *
US-PATENT-CLASS-367-88	c 32	N83-31918 *	US-PATENT-CLASS-375-114	c 60	N82-16747 *	US-PATENT-CLASS-403-408.1	c 37	N86-27630 *

US-PATENT-CLASS-403-408	c 37	N85-29285 *	US-PATENT-CLASS-415-178	c 07	N83-31603 *	US-PATENT-CLASS-417-209	c 44	N76-29701 *
US-PATENT-CLASS-403-4	c 18	N89-28554 *	US-PATENT-CLASS-415-180	c 07	N77-23106 *	US-PATENT-CLASS-417-225	c 35	N78-10428 *
US-PATENT-CLASS-403-51	c 18	N89-28553 *	US-PATENT-CLASS-415-181	c 07	N78-10467 *	US-PATENT-CLASS-417-328	c 37	N84-28081 *
US-PATENT-CLASS-403-56	c 18	N85-29991 *	US-PATENT-CLASS-415-181	c 07	N74-28226 *	US-PATENT-CLASS-417-36	c 35	N75-19611 *
US-PATENT-CLASS-403-64	c 31	N86-19479 *	US-PATENT-CLASS-415-181	c 07	N74-31270 *	US-PATENT-CLASS-417-379	c 44	N76-29701 *
US-PATENT-CLASS-403-76	c 18	N85-29991 *	US-PATENT-CLASS-415-196	c 37	N80-26658 *	US-PATENT-CLASS-417-383	c 37	N80-31790 *
US-PATENT-CLASS-403-85	c 18	N87-14373 *	US-PATENT-CLASS-415-196	c 37	N82-19540 *	US-PATENT-CLASS-417-391	c 15	N73-24513 *
US-PATENT-CLASS-403-90	c 18	N85-29991 *	US-PATENT-CLASS-415-197	c 18	N83-20996 *	US-PATENT-CLASS-417-392	c 37	N84-28081 *
US-PATENT-CLASS-405-229	c 44	N79-24432 *	US-PATENT-CLASS-415-199	c 05	N80-14107 *	US-PATENT-CLASS-417-395	c 35	N75-19611 *
US-PATENT-CLASS-405-263	c 44	N79-24432 *	US-PATENT-CLASS-415-1	c 34	N79-20335 *	US-PATENT-CLASS-417-399	c 44	N83-14693 *
US-PATENT-CLASS-406-155	c 37	N84-16561 *	US-PATENT-CLASS-415-1	c 07	N83-31603 *	US-PATENT-CLASS-417-417	c 44	N83-28574 *
US-PATENT-CLASS-407-117	c 37	N81-14319 *	US-PATENT-CLASS-415-1	c 37	N85-29282 *	US-PATENT-CLASS-417-417	c 31	N85-21404 *
US-PATENT-CLASS-407-85	c 37	N81-14319 *	US-PATENT-CLASS-415-2R	c 44	N82-24639 *	US-PATENT-CLASS-417-462	c 37	N84-28081 *
US-PATENT-CLASS-408-1-R	c 31	N87-25491 *	US-PATENT-CLASS-415-2R	c 44	N84-23018 *	US-PATENT-CLASS-417-470	c 35	N74-15126 *
US-PATENT-CLASS-408-1R	c 37	N81-14319 *	US-PATENT-CLASS-415-200	c 07	N79-14096 *	US-PATENT-CLASS-417-471	c 35	N74-15126 *
US-PATENT-CLASS-408-1R	c 31	N83-27058 *	US-PATENT-CLASS-415-200	c 37	N79-18318 *	US-PATENT-CLASS-417-475	c 37	N86-32738 *
US-PATENT-CLASS-408-111	c 37	N74-25968 *	US-PATENT-CLASS-415-201	c 07	N79-14096 *	US-PATENT-CLASS-417-488	c 31	N85-21404 *
US-PATENT-CLASS-408-112	c 37	N75-25186 *	US-PATENT-CLASS-415-2	c 44	N80-21828 *	US-PATENT-CLASS-417-50	c 15	N71-27084 *
US-PATENT-CLASS-408-137	c 15	N71-33518 *	US-PATENT-CLASS-415-47	c 07	N83-31603 *	US-PATENT-CLASS-417-52	c 37	N74-27904 *
US-PATENT-CLASS-408-186	c 37	N75-25186 *	US-PATENT-CLASS-415-68	c 37	N85-29282 *	US-PATENT-CLASS-417-88	c 44	N78-32539 *
US-PATENT-CLASS-408-193	c 37	N75-25186 *	US-PATENT-CLASS-415-9	c 44	N79-14527 *	US-PATENT-CLASS-418-113	c 37	N82-16408 *
US-PATENT-CLASS-408-195	c 37	N75-25186 *	US-PATENT-CLASS-416-104	c 05	N77-17029 *	US-PATENT-CLASS-418-142	c 37	N82-16408 *
US-PATENT-CLASS-408-61	c 31	N83-27058 *	US-PATENT-CLASS-416-114	c 05	N81-19087 *	US-PATENT-CLASS-42-1F	c 11	N72-22427 *
US-PATENT-CLASS-408-80	c 37	N74-25968 *	US-PATENT-CLASS-416-114	c 08	N87-23631 *	US-PATENT-CLASS-42-101	c 44	N86-25874 *
US-PATENT-CLASS-409-131	c 31	N83-27058 *	US-PATENT-CLASS-416-115	c 02	N72-11018 *	US-PATENT-CLASS-42-215	c 44	N76-29704 *
US-PATENT-CLASS-41R	c 27	N81-15104 *	US-PATENT-CLASS-416-117	c 37	N84-12493 *	US-PATENT-CLASS-420-445	c 26	N82-31505 *
US-PATENT-CLASS-410-76	c 37	N85-34401 *	US-PATENT-CLASS-416-121	c 02	N72-11018 *	US-PATENT-CLASS-420-460	c 26	N87-14482 *
US-PATENT-CLASS-410-159	c 18	N85-29991 *	US-PATENT-CLASS-416-127	c 02	N72-11018 *	US-PATENT-CLASS-420-529	c 26	N89-28621 *
US-PATENT-CLASS-410-90	c 18	N85-29991 *	US-PATENT-CLASS-416-130	c 02	N72-11018 *	US-PATENT-CLASS-420-533	c 26	N89-28621 *
US-PATENT-CLASS-411-103	c 37	N85-30335 *	US-PATENT-CLASS-416-132B	c 37	N84-12493 *	US-PATENT-CLASS-420-54	c 26	N89-14303 *
US-PATENT-CLASS-411-108	c 37	N85-30335 *	US-PATENT-CLASS-416-132R	c 05	N79-17847 *	US-PATENT-CLASS-420-551	c 26	N82-31505 *
US-PATENT-CLASS-411-166	c 37	N87-22976 *	US-PATENT-CLASS-416-135	c 07	N77-32148 *	US-PATENT-CLASS-420-588	c 26	N82-31505 *
US-PATENT-CLASS-411-353	c 37	N83-19091 *	US-PATENT-CLASS-416-135	c 37	N78-10468 *	US-PATENT-CLASS-420-62	c 26	N89-14303 *
US-PATENT-CLASS-411-368	c 37	N85-29285 *	US-PATENT-CLASS-416-138	c 05	N77-17029 *	US-PATENT-CLASS-420-79	c 26	N89-14303 *
US-PATENT-CLASS-411-368	c 37	N87-22976 *	US-PATENT-CLASS-416-138	c 05	N79-17847 *	US-PATENT-CLASS-420-80	c 26	N89-14303 *
US-PATENT-CLASS-411-378	c 37	N85-29285 *	US-PATENT-CLASS-416-141	c 05	N77-17029 *	US-PATENT-CLASS-420-81	c 26	N89-14303 *
US-PATENT-CLASS-411-424	c 37	N87-22976 *	US-PATENT-CLASS-416-141	c 37	N78-10468 *	US-PATENT-CLASS-422-103	c 35	N85-29213 *
US-PATENT-CLASS-411-426	c 37	N85-29285 *	US-PATENT-CLASS-416-144	c 35	N78-24515 *	US-PATENT-CLASS-422-109	c 54	N81-24724 *
US-PATENT-CLASS-411-427	c 37	N87-22976 *	US-PATENT-CLASS-416-145	c 05	N85-29947 *	US-PATENT-CLASS-422-121	c 35	N84-17555 *
US-PATENT-CLASS-411-501	c 37	N85-29285 *	US-PATENT-CLASS-416-149	c 02	N72-11018 *	US-PATENT-CLASS-422-129	c 37	N85-21652 *
US-PATENT-CLASS-411-517	c 37	N83-19091 *	US-PATENT-CLASS-416-153	c 07	N77-14025 *	US-PATENT-CLASS-422-169	c 35	N84-17555 *
US-PATENT-CLASS-411-531	c 37	N85-29285 *	US-PATENT-CLASS-416-157B	c 07	N79-14095 *	US-PATENT-CLASS-422-178	c 35	N84-17555 *
US-PATENT-CLASS-411-531	c 37	N87-22976 *	US-PATENT-CLASS-416-158	c 08	N87-23631 *	US-PATENT-CLASS-422-186	c 25	N82-28368 *
US-PATENT-CLASS-414-1	c 37	N80-14398 *	US-PATENT-CLASS-416-160	c 07	N77-14025 *	US-PATENT-CLASS-422-186	c 35	N84-17555 *
US-PATENT-CLASS-414-1	c 37	N81-14320 *	US-PATENT-CLASS-416-160	c 07	N79-14095 *	US-PATENT-CLASS-422-187	c 37	N80-10494 *
US-PATENT-CLASS-414-1	c 54	N86-28618 *	US-PATENT-CLASS-416-162	c 07	N77-14025 *	US-PATENT-CLASS-422-198	c 25	N82-28368 *
US-PATENT-CLASS-414-217	c 37	N85-29286 *	US-PATENT-CLASS-416-162	c 07	N79-14095 *	US-PATENT-CLASS-422-199	c 37	N80-10494 *
US-PATENT-CLASS-414-222	c 37	N82-32731 *	US-PATENT-CLASS-416-165	c 07	N77-14025 *	US-PATENT-CLASS-422-199	c 37	N85-21652 *
US-PATENT-CLASS-414-226	c 37	N82-32731 *	US-PATENT-CLASS-416-167	c 07	N77-14025 *	US-PATENT-CLASS-422-200	c 44	N83-10501 *
US-PATENT-CLASS-414-288	c 85	N85-34722 *	US-PATENT-CLASS-416-167	c 07	N79-14095 *	US-PATENT-CLASS-422-202	c 44	N83-10501 *
US-PATENT-CLASS-414-328	c 85	N85-34722 *	US-PATENT-CLASS-416-190	c 07	N77-32148 *	US-PATENT-CLASS-422-208	c 37	N80-10494 *
US-PATENT-CLASS-414-373	c 85	N85-34722 *	US-PATENT-CLASS-416-193A	c 07	N77-32148 *	US-PATENT-CLASS-422-224	c 31	N80-18231 *
US-PATENT-CLASS-414-4	c 37	N79-28551 *	US-PATENT-CLASS-416-1	c 34	N83-27144 *	US-PATENT-CLASS-422-224	c 44	N83-10501 *
US-PATENT-CLASS-414-4	c 54	N81-26718 *	US-PATENT-CLASS-416-200	c 02	N72-11018 *	US-PATENT-CLASS-422-235	c 37	N80-10494 *
US-PATENT-CLASS-414-4	c 37	N86-20789 *	US-PATENT-CLASS-416-214A	c 07	N78-33101 *	US-PATENT-CLASS-422-242	c 37	N80-10494 *
US-PATENT-CLASS-414-5	c 54	N86-28618 *	US-PATENT-CLASS-416-220R	c 07	N77-27116 *	US-PATENT-CLASS-422-246	c 76	N80-32244 *
US-PATENT-CLASS-414-689	c 18	N89-12621 *	US-PATENT-CLASS-416-220R	c 37	N78-10468 *	US-PATENT-CLASS-422-246	c 33	N81-19389 *
US-PATENT-CLASS-414-6	c 54	N79-24652 *	US-PATENT-CLASS-416-221	c 07	N77-27116 *	US-PATENT-CLASS-422-246	c 76	N82-30105 *
US-PATENT-CLASS-414-718	c 37	N86-20789 *	US-PATENT-CLASS-416-223-R	c 02	N89-14224 *	US-PATENT-CLASS-422-246	c 76	N84-35113 *
US-PATENT-CLASS-414-718	c 18	N89-12621 *	US-PATENT-CLASS-416-223R	c 02	N84-11136 *	US-PATENT-CLASS-422-246	c 76	N88-24544 *
US-PATENT-CLASS-414-730	c 37	N81-27519 *	US-PATENT-CLASS-416-223R	c 02	N84-28732 *	US-PATENT-CLASS-422-249	c 33	N81-19389 *
US-PATENT-CLASS-414-730	c 37	N86-19603 *	US-PATENT-CLASS-416-223	c 07	N74-28226 *	US-PATENT-CLASS-422-249	c 76	N84-35113 *
US-PATENT-CLASS-414-735	c 54	N81-26718 *	US-PATENT-CLASS-416-224	c 24	N77-19170 *	US-PATENT-CLASS-422-251	c 76	N88-14835 *
US-PATENT-CLASS-414-735	c 18	N88-23828 *	US-PATENT-CLASS-416-224	c 07	N84-22560 *	US-PATENT-CLASS-422-260	c 76	N88-14835 *
US-PATENT-CLASS-414-735	c 18	N89-12621 *	US-PATENT-CLASS-416-228	c 05	N80-14107 *	US-PATENT-CLASS-422-27	c 54	N81-24724 *
US-PATENT-CLASS-414-739	c 37	N82-32731 *	US-PATENT-CLASS-416-230	c 24	N77-19170 *	US-PATENT-CLASS-422-30	c 54	N81-24724 *
US-PATENT-CLASS-414-744A	c 54	N81-26718 *	US-PATENT-CLASS-416-233	c 07	N84-22560 *	US-PATENT-CLASS-422-34	c 54	N81-24724 *
US-PATENT-CLASS-414-750	c 18	N88-23828 *	US-PATENT-CLASS-416-237	c 07	N74-28226 *	US-PATENT-CLASS-422-3	c 54	N81-24724 *
US-PATENT-CLASS-414-753	c 37	N86-20789 *	US-PATENT-CLASS-416-238	c 05	N80-14107 *	US-PATENT-CLASS-422-40	c 35	N82-11432 *
US-PATENT-CLASS-414-786	c 85	N85-34722 *	US-PATENT-CLASS-416-23	c 05	N85-29947 *	US-PATENT-CLASS-422-41	c 52	N79-14749 *
US-PATENT-CLASS-414-7	c 54	N86-28618 *	US-PATENT-CLASS-416-241A	c 07	N77-32148 *	US-PATENT-CLASS-422-48	c 52	N79-14749 *
US-PATENT-CLASS-414-7	c 54	N86-28620 *	US-PATENT-CLASS-416-241R	c 26	N84-33555 *	US-PATENT-CLASS-422-52	c 51	N80-16714 *
US-PATENT-CLASS-414-8	c 54	N86-28618 *	US-PATENT-CLASS-416-242	c 02	N84-11136 *	US-PATENT-CLASS-422-52	c 51	N83-27569 *
US-PATENT-CLASS-415-DIG.8	c 44	N82-24639 *	US-PATENT-CLASS-416-242	c 02	N84-28732 *	US-PATENT-CLASS-422-68	c 51	N80-27067 *
US-PATENT-CLASS-415-DIG.8	c 44	N84-23018 *	US-PATENT-CLASS-416-244A	c 07	N78-33101 *	US-PATENT-CLASS-422-78	c 25	N86-19413 *
US-PATENT-CLASS-415-101	c 44	N80-21828 *	US-PATENT-CLASS-416-248	c 37	N78-10468 *	US-PATENT-CLASS-422-80	c 25	N82-12166 *
US-PATENT-CLASS-415-115	c 07	N79-10057 *	US-PATENT-CLASS-416-25	c 05	N75-12930 *	US-PATENT-CLASS-422-86	c 35	N85-29213 *
US-PATENT-CLASS-415-115	c 34	N83-27144 *	US-PATENT-CLASS-416-2	c 44	N79-14527 *	US-PATENT-CLASS-422-88	c 35	N85-29213 *
US-PATENT-CLASS-415-115	c 07	N84-33410 *	US-PATENT-CLASS-416-500	c 05	N81-19087 *	US-PATENT-CLASS-422-9	c 45	N80-14579 *
US-PATENT-CLASS-415-115	c 34	N85-33433 *	US-PATENT-CLASS-416-500	c 05	N85-29947 *	US-PATENT-CLASS-423-DIG.10	c 24	N84-22695 *
US-PATENT-CLASS-415-116	c 07	N79-10057 *	US-PATENT-CLASS-416-51	c 05	N79-17847 *	US-PATENT-CLASS-423-DIG.10	c 31	N85-20153 *
US-PATENT-CLASS-415-118	c 35	N83-35338 *	US-PATENT-CLASS-416-61	c 35	N78-24515 *	US-PATENT-CLASS-423-131	c 28	N81-15119 *
US-PATENT-CLASS-415-136	c 37	N88-23978 *	US-PATENT-CLASS-416-61	c 37	N79-14382 *	US-PATENT-CLASS-423-149	c 26	N80-14229 *
US-PATENT-CLASS-415-143	c 34	N79-20335 *	US-PATENT-CLASS-416-88	c 05	N79-17847 *	US-PATENT-CLASS-423-1	c 28	N81-15119 *
US-PATENT-CLASS-415-145	c 07	N77-28118 *	US-PATENT-CLASS-416-89	c 05	N79-17847 *	US-PATENT-CLASS-423-231	c 25	N74-12813 *
US-PATENT-CLASS-415-145	c 07	N82-32366 *	US-PATENT-CLASS-416-92	c 07	N84-22560 *	US-PATENT-CLASS-423-235	c 25	N82-28368 *
US-PATENT-CLASS-415-170-R	c 37	N88-23978 *	US-PATENT-CLASS-416-97A	c 34	N85-33433 *	US-PATENT-CLASS-423-242	c 45	N79-12584 *
US-PATENT-CLASS-415-174	c 37	N79-18318 *	US-PATENT-CLASS-416-97R	c 34	N83-27144 *	US-PATENT-CLASS-423-249	c 25	N76-27383 *
US-PATENT-CLASS-415-174	c 37	N80-26658 *	US-PATENT-CLASS-416-97R	c 07	N84-22560 *	US-PATENT-CLASS-423-276	c 23	N87-23698 *
US-PATENT-CLASS-415-174	c 37	N82-19540 *	US-PATENT-CLASS-417-138	c 35	N75-19611 *	US-PATENT-CLASS-423-284	c 23	N87-23698 *
US-PATENT-CLASS-415-174	c 27	N82-29453 *	US-PATENT-CLASS-417-141	c 44	N76-29701 *	US-PATENT-CLASS-423-293	c 26	N80-14229 *
US-PATENT-CLASS-415-174	c 18	N83-20996 *	US-PATENT-CLASS-417-152	c 15	N72-22489 *	US-PATENT-CLASS-423-303	c 44	N84-23019 *
US-PATENT-CLASS-415-174	c 37	N84-22957 *	US-PATENT-CLASS-417-159	c 09	N84-27749 *	US-PATENT-CLASS-423-335	c 25	N79-28253 *
US-PATENT-CLASS-415-174	c 37	N86-20788 *	US-PATENT-CLASS-417-15	c 37	N83-26078 *	US-PATENT-CLASS-423-338	c 76	N87-29360 *
US-PATENT-CLASS-415-175	c 07	N83-31603 *	US-PATENT-CLASS-417-207	c 44	N76-29701 *	US-PATENT-CLASS-423-339	c 76	N87-29360 *
US-PATENT-CLASS-415-178	c 07	N82-32366 *	US-PATENT-CLASS-417-209	c 34	N76-17317 *	US-PATENT-CLASS-423-345	c 76	N76-25049 *

US-PATENT-CLASS-423-345	c 76	N79-23798 *	US-PATENT-CLASS-427-126	c 44	N79-11472 *	US-PATENT-CLASS-427-376C	c 24	N79-17916 *
US-PATENT-CLASS-423-346	c 76	N76-25049 *	US-PATENT-CLASS-427-130	c 44	N77-32583 *	US-PATENT-CLASS-427-376	c 27	N76-22377 *
US-PATENT-CLASS-423-348	c 26	N80-14229 *	US-PATENT-CLASS-427-140	c 27	N82-33520 *	US-PATENT-CLASS-427-376	c 27	N76-23426 *
US-PATENT-CLASS-423-350	c 37	N80-10494 *	US-PATENT-CLASS-427-140	c 24	N83-13172 *	US-PATENT-CLASS-427-379	c 27	N76-22377 *
US-PATENT-CLASS-423-350	c 31	N80-18231 *	US-PATENT-CLASS-427-160	c 34	N77-18382 *	US-PATENT-CLASS-427-379	c 27	N76-23426 *
US-PATENT-CLASS-423-352	c 36	N76-18427 *	US-PATENT-CLASS-427-160	c 44	N78-19599 *	US-PATENT-CLASS-427-379	c 27	N78-32260 *
US-PATENT-CLASS-423-407	c 24	N76-14203 *	US-PATENT-CLASS-427-162	c 12	N76-15189 *	US-PATENT-CLASS-427-379	c 27	N81-19296 *
US-PATENT-CLASS-423-414	c 24	N84-22695 *	US-PATENT-CLASS-427-162	c 27	N86-31727 *	US-PATENT-CLASS-427-379	c 24	N83-13171 *
US-PATENT-CLASS-423-414	c 31	N85-20153 *	US-PATENT-CLASS-427-164	c 27	N78-14164 *	US-PATENT-CLASS-427-379	c 24	N83-13172 *
US-PATENT-CLASS-423-417	c 26	N80-14229 *	US-PATENT-CLASS-427-164	c 27	N78-12333 *	US-PATENT-CLASS-427-379	c 44	N84-28205 *
US-PATENT-CLASS-423-419P	c 25	N83-33977 *	US-PATENT-CLASS-427-164	c 74	N78-32854 *	US-PATENT-CLASS-427-379	c 24	N85-30027 *
US-PATENT-CLASS-423-445	c 24	N84-22695 *	US-PATENT-CLASS-427-164	c 27	N80-24437 *	US-PATENT-CLASS-427-380	c 27	N76-22377 *
US-PATENT-CLASS-423-445	c 31	N85-20153 *	US-PATENT-CLASS-427-164	c 27	N86-31727 *	US-PATENT-CLASS-427-380	c 27	N76-23426 *
US-PATENT-CLASS-423-445	c 24	N85-21267 *	US-PATENT-CLASS-427-165	c 27	N86-31727 *	US-PATENT-CLASS-427-380	c 27	N78-32260 *
US-PATENT-CLASS-423-446	c 15	N73-19457 *	US-PATENT-CLASS-427-178	c 24	N85-30027 *	US-PATENT-CLASS-427-380	c 44	N84-28205 *
US-PATENT-CLASS-423-446	c 24	N84-22695 *	US-PATENT-CLASS-427-191	c 26	N85-35267 *	US-PATENT-CLASS-427-380	c 26	N85-35267 *
US-PATENT-CLASS-423-446	c 31	N85-20153 *	US-PATENT-CLASS-427-191	c 26	N86-32550 *	US-PATENT-CLASS-427-384	c 24	N83-13171 *
US-PATENT-CLASS-423-446	c 24	N85-21267 *	US-PATENT-CLASS-427-192	c 26	N86-32550 *	US-PATENT-CLASS-427-384	c 24	N83-13172 *
US-PATENT-CLASS-423-447.2	c 24	N83-25789 *	US-PATENT-CLASS-427-192	c 27	N76-15310 *	US-PATENT-CLASS-427-385.5	c 27	N81-14078 *
US-PATENT-CLASS-423-447.6	c 24	N83-25789 *	US-PATENT-CLASS-427-203	c 27	N76-16229 *	US-PATENT-CLASS-427-385.5	c 27	N86-20561 *
US-PATENT-CLASS-423-447.7	c 24	N83-25789 *	US-PATENT-CLASS-427-204	c 27	N76-16229 *	US-PATENT-CLASS-427-385B	c 44	N78-25530 *
US-PATENT-CLASS-423-449	c 24	N84-22695 *	US-PATENT-CLASS-427-205	c 27	N76-16229 *	US-PATENT-CLASS-427-385C	c 44	N78-25530 *
US-PATENT-CLASS-423-449	c 31	N85-20153 *	US-PATENT-CLASS-427-205	c 27	N82-28441 *	US-PATENT-CLASS-427-386	c 24	N78-27180 *
US-PATENT-CLASS-423-449	c 24	N85-21267 *	US-PATENT-CLASS-427-215	c 27	N78-32260 *	US-PATENT-CLASS-427-387	c 74	N78-32854 *
US-PATENT-CLASS-423-539	c 25	N82-28368 *	US-PATENT-CLASS-427-215	c 24	N83-33950 *	US-PATENT-CLASS-427-387	c 24	N83-13171 *
US-PATENT-CLASS-423-540	c 25	N82-28368 *	US-PATENT-CLASS-427-216	c 33	N84-16456 *	US-PATENT-CLASS-427-387	c 24	N83-13172 *
US-PATENT-CLASS-423-542	c 25	N82-28368 *	US-PATENT-CLASS-427-217	c 33	N84-16456 *	US-PATENT-CLASS-427-388.1	c 27	N86-20561 *
US-PATENT-CLASS-423-579	c 46	N74-13011 *	US-PATENT-CLASS-427-219.2	c 27	N83-31855 *	US-PATENT-CLASS-427-388A	c 24	N78-27180 *
US-PATENT-CLASS-423-579	c 25	N82-28368 *	US-PATENT-CLASS-427-221	c 27	N81-19296 *	US-PATENT-CLASS-427-388	c 74	N78-32854 *
US-PATENT-CLASS-423-581	c 25	N79-10162 *	US-PATENT-CLASS-427-226	c 33	N84-16456 *	US-PATENT-CLASS-427-38	c 27	N80-24437 *
US-PATENT-CLASS-423-582	c 26	N78-32229 *	US-PATENT-CLASS-427-226	c 44	N84-28205 *	US-PATENT-CLASS-427-38	c 26	N85-29005 *
US-PATENT-CLASS-423-583	c 26	N78-32229 *	US-PATENT-CLASS-427-228	c 26	N85-35267 *	US-PATENT-CLASS-427-38	c 27	N86-19458 *
US-PATENT-CLASS-423-600	c 25	N83-33977 *	US-PATENT-CLASS-427-229	c 25	N78-10225 *	US-PATENT-CLASS-427-38	c 26	N88-14179 *
US-PATENT-CLASS-423-625	c 15	N73-19457 *	US-PATENT-CLASS-427-229	c 37	N87-21334 *	US-PATENT-CLASS-427-393.3	c 27	N82-16238 *
US-PATENT-CLASS-423-625	c 26	N80-14229 *	US-PATENT-CLASS-427-230	c 37	N76-31524 *	US-PATENT-CLASS-427-397.7	c 27	N82-33520 *
US-PATENT-CLASS-423-644	c 36	N76-18427 *	US-PATENT-CLASS-427-240	c 37	N81-33482 *	US-PATENT-CLASS-427-397.7	c 26	N85-35267 *
US-PATENT-CLASS-423-648R	c 44	N77-22607 *	US-PATENT-CLASS-427-241	c 24	N83-33950 *	US-PATENT-CLASS-427-398A	c 44	N79-11472 *
US-PATENT-CLASS-423-648R	c 28	N78-24365 *	US-PATENT-CLASS-427-243	c 31	N83-35177 *	US-PATENT-CLASS-427-399	c 44	N79-11472 *
US-PATENT-CLASS-423-648R	c 28	N80-20402 *	US-PATENT-CLASS-427-244	c 25	N82-21268 *	US-PATENT-CLASS-427-399	c 36	N84-22944 *
US-PATENT-CLASS-423-648R	c 28	N81-14103 *	US-PATENT-CLASS-427-245	c 27	N80-23452 *	US-PATENT-CLASS-427-39	c 24	N85-21267 *
US-PATENT-CLASS-423-648R	c 25	N82-28368 *	US-PATENT-CLASS-427-245	c 31	N88-29052 *	US-PATENT-CLASS-427-39	c 31	N86-32587 *
US-PATENT-CLASS-423-648R	c 25	N83-29324 *	US-PATENT-CLASS-427-246	c 25	N82-21268 *	US-PATENT-CLASS-427-400	c 27	N83-34039 *
US-PATENT-CLASS-423-649	c 25	N83-29324 *	US-PATENT-CLASS-427-247	c 31	N83-35177 *	US-PATENT-CLASS-427-402	c 27	N76-22377 *
US-PATENT-CLASS-423-650	c 44	N76-18642 *	US-PATENT-CLASS-427-248.1	c 27	N86-19458 *	US-PATENT-CLASS-427-402	c 27	N76-23426 *
US-PATENT-CLASS-423-650	c 44	N76-29700 *	US-PATENT-CLASS-427-248E	c 37	N78-13436 *	US-PATENT-CLASS-427-405	c 34	N78-18355 *
US-PATENT-CLASS-423-650	c 44	N76-29704 *	US-PATENT-CLASS-427-248J	c 44	N78-24609 *	US-PATENT-CLASS-427-405	c 27	N82-28441 *
US-PATENT-CLASS-423-650	c 44	N77-10636 *	US-PATENT-CLASS-427-248	c 44	N76-28635 *	US-PATENT-CLASS-427-405	c 27	N83-18555 *
US-PATENT-CLASS-423-650	c 28	N80-10374 *	US-PATENT-CLASS-427-249	c 44	N76-28635 *	US-PATENT-CLASS-427-405	c 26	N84-27855 *
US-PATENT-CLASS-423-658.5	c 28	N81-15119 *	US-PATENT-CLASS-427-249	c 44	N78-24609 *	US-PATENT-CLASS-427-407.1	c 27	N83-34039 *
US-PATENT-CLASS-424-12	c 25	N79-14169 *	US-PATENT-CLASS-427-250	c 12	N76-15189 *	US-PATENT-CLASS-427-40	c 27	N78-31233 *
US-PATENT-CLASS-424-12	c 51	N80-16715 *	US-PATENT-CLASS-427-250	c 44	N76-28635 *	US-PATENT-CLASS-427-40	c 27	N79-18052 *
US-PATENT-CLASS-424-156	c 25	N83-33977 *	US-PATENT-CLASS-427-250	c 37	N78-13436 *	US-PATENT-CLASS-427-40	c 27	N80-24437 *
US-PATENT-CLASS-424-180	c 52	N75-15270 *	US-PATENT-CLASS-427-253	c 27	N82-28441 *	US-PATENT-CLASS-427-419.2	c 26	N83-31795 *
US-PATENT-CLASS-424-247	c 52	N81-29764 *	US-PATENT-CLASS-427-255	c 37	N78-13436 *	US-PATENT-CLASS-427-419.2	c 26	N84-27855 *
US-PATENT-CLASS-424-267	c 52	N81-29764 *	US-PATENT-CLASS-427-261	c 44	N78-25527 *	US-PATENT-CLASS-427-419A	c 34	N78-18355 *
US-PATENT-CLASS-424-274	c 52	N81-14613 *	US-PATENT-CLASS-427-261	c 44	N79-11472 *	US-PATENT-CLASS-427-41	c 27	N78-31233 *
US-PATENT-CLASS-424-274	c 52	N81-29764 *	US-PATENT-CLASS-427-270	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 74	N78-32854 *
US-PATENT-CLASS-424-3	c 51	N77-27677 *	US-PATENT-CLASS-427-272	c 31	N90-19427 *	US-PATENT-CLASS-427-41	c 27	N79-14214 *
US-PATENT-CLASS-425-DIG.43	c 31	N75-13111 *	US-PATENT-CLASS-427-275	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N79-18052 *
US-PATENT-CLASS-425-10	c 31	N83-35176 *	US-PATENT-CLASS-427-287	c 27	N76-16229 *	US-PATENT-CLASS-427-41	c 27	N80-23452 *
US-PATENT-CLASS-425-113	c 15	N73-13464 *	US-PATENT-CLASS-427-292	c 24	N79-17916 *	US-PATENT-CLASS-427-421	c 71	N84-16940 *
US-PATENT-CLASS-425-128	c 31	N74-32920 *	US-PATENT-CLASS-427-292	c 24	N83-13172 *	US-PATENT-CLASS-427-421	c 26	N86-32550 *
US-PATENT-CLASS-425-133	c 15	N73-13464 *	US-PATENT-CLASS-427-294	c 27	N79-14214 *	US-PATENT-CLASS-427-422	c 24	N85-30027 *
US-PATENT-CLASS-425-176	c 15	N73-13464 *	US-PATENT-CLASS-427-294	c 26	N85-35267 *	US-PATENT-CLASS-427-423	c 34	N78-18355 *
US-PATENT-CLASS-425-288	c 31	N74-32917 *	US-PATENT-CLASS-427-296	c 26	N84-22734 *	US-PATENT-CLASS-427-423	c 27	N82-29453 *
US-PATENT-CLASS-425-35	c 31	N74-32917 *	US-PATENT-CLASS-427-302	c 74	N78-32854 *	US-PATENT-CLASS-427-423	c 27	N83-18555 *
US-PATENT-CLASS-425-378R	c 31	N81-15154 *	US-PATENT-CLASS-427-302	c 24	N83-13172 *	US-PATENT-CLASS-427-423	c 31	N83-35177 *
US-PATENT-CLASS-425-4R	c 27	N88-23894 *	US-PATENT-CLASS-427-306	c 26	N84-22734 *	US-PATENT-CLASS-427-423	c 37	N84-22957 *
US-PATENT-CLASS-425-405R	c 31	N75-13111 *	US-PATENT-CLASS-427-318	c 26	N83-31795 *	US-PATENT-CLASS-427-425	c 37	N82-24492 *
US-PATENT-CLASS-425-415	c 31	N74-32920 *	US-PATENT-CLASS-427-322	c 34	N77-18382 *	US-PATENT-CLASS-427-426	c 27	N76-15310 *
US-PATENT-CLASS-425-425	c 31	N90-19425 *	US-PATENT-CLASS-427-322	c 74	N78-32854 *	US-PATENT-CLASS-427-426	c 71	N84-16940 *
US-PATENT-CLASS-425-435	c 31	N90-19425 *	US-PATENT-CLASS-427-322	c 27	N83-34039 *	US-PATENT-CLASS-427-427	c 24	N78-24290 *
US-PATENT-CLASS-425-438	c 31	N75-13111 *	US-PATENT-CLASS-427-327	c 24	N79-17916 *	US-PATENT-CLASS-427-427	c 26	N86-32550 *
US-PATENT-CLASS-425-468	c 31	N75-13111 *	US-PATENT-CLASS-427-328	c 24	N79-17916 *	US-PATENT-CLASS-427-429	c 27	N81-14078 *
US-PATENT-CLASS-425-6	c 31	N81-33319 *	US-PATENT-CLASS-427-340	c 27	N83-34039 *	US-PATENT-CLASS-427-436	c 33	N84-16456 *
US-PATENT-CLASS-425-6	c 27	N82-28442 *	US-PATENT-CLASS-427-343	c 44	N79-11472 *	US-PATENT-CLASS-427-437	c 33	N84-16456 *
US-PATENT-CLASS-425-6	c 31	N83-31896 *	US-PATENT-CLASS-427-346	c 71	N84-16940 *	US-PATENT-CLASS-427-443.2	c 25	N84-12262 *
US-PATENT-CLASS-425-6	c 31	N83-35176 *	US-PATENT-CLASS-427-34	c 34	N78-18355 *	US-PATENT-CLASS-427-443	c 44	N84-28205 *
US-PATENT-CLASS-425-6	c 71	N84-28568 *	US-PATENT-CLASS-427-34	c 24	N79-17916 *	US-PATENT-CLASS-427-44	c 74	N78-32854 *
US-PATENT-CLASS-425-6	c 26	N86-32551 *	US-PATENT-CLASS-427-34	c 27	N82-29453 *	US-PATENT-CLASS-427-44	c 27	N80-32516 *
US-PATENT-CLASS-425-73	c 31	N90-19425 *	US-PATENT-CLASS-427-34	c 27	N83-31855 *	US-PATENT-CLASS-427-47	c 44	N77-32583 *
US-PATENT-CLASS-425-75	c 31	N90-19425 *	US-PATENT-CLASS-427-34	c 31	N83-35177 *	US-PATENT-CLASS-427-47	c 26	N85-29005 *
US-PATENT-CLASS-425-77	c 15	N72-20446 *	US-PATENT-CLASS-427-34	c 37	N84-22957 *	US-PATENT-CLASS-427-4	c 51	N77-27677 *
US-PATENT-CLASS-425-7	c 31	N83-35176 *	US-PATENT-CLASS-427-34	c 26	N84-27855 *	US-PATENT-CLASS-427-53.1	c 36	N84-22944 *
US-PATENT-CLASS-427-113	c 44	N76-28635 *	US-PATENT-CLASS-427-350	c 24	N79-25142 *	US-PATENT-CLASS-427-53.1	c 37	N84-22957 *
US-PATENT-CLASS-427-113	c 44	N78-24609 *	US-PATENT-CLASS-427-352	c 27	N83-34039 *	US-PATENT-CLASS-427-531	c 44	N82-28780 *
US-PATENT-CLASS-427-113	c 44	N84-28205 *	US-PATENT-CLASS-427-355	c 24	N79-17916 *	US-PATENT-CLASS-427-57	c 71	N84-16940 *
US-PATENT-CLASS-427-115	c 25	N82-21268 *	US-PATENT-CLASS-427-372.2	c 27	N82-33520 *	US-PATENT-CLASS-427-58	c 33	N84-16456 *
US-PATENT-CLASS-427-115	c 26	N84-22734 *	US-PATENT-CLASS-427-372.2	c 44	N84-28205 *	US-PATENT-CLASS-427-6	c 71	N84-16940 *
US-PATENT-CLASS-427-115	c 44	N84-28205 *	US-PATENT-CLASS-427-372A	c 24	N79-25142 *	US-PATENT-CLASS-427-74	c 44	N82-28780 *
US-PATENT-CLASS-427-123	c 44	N79-11472 *	US-PATENT-CLASS-427-376.2	c 26	N85-35267 *	US-PATENT-CLASS-427-75	c 44	N78-25527 *
US-PATENT-CLASS-427-124	c 37	N78-13436 *	US-PATENT-CLASS-427-376.6	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 44	N79-11468 *
US-PATENT-CLASS-427-125	c 26	N84-22734 *	US-PATENT-CLASS-427-376.7	c 33	N84-16456 *	US-PATENT-CLASS-427-75	c 44	N79-11472 *
US-PATENT-CLASS-427-125	c 44	N84-28205 *	US-PATENT-CLASS-427-376A	c 27	N78-32260 *	US-PATENT-CLASS-427-75	c 33	N84-16456 *
US-PATENT-CLASS-427-126.6	c 26	N84-22734 *	US-PATENT-CLASS-427-376B	c 27	N78-32260 *	US-PATENT-CLASS-427-84	c 44	N79-11472 *
US-PATENT-CLASS-427-126	c 37	N78-13436 *	US-PATENT-CLASS-427-376B	c 24	N79-17916 *	US-PATENT-CLASS-427-85	c 44	N85-20530 *

US-PATENT-CLASS-427-86	c 44	N76-28635 *	US-PATENT-CLASS-428-311.5	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 24	N79-25142 *
US-PATENT-CLASS-427-86	c 44	N78-24609 *	US-PATENT-CLASS-428-312.6	c 27	N82-29456 *	US-PATENT-CLASS-428-447	c 27	N82-24339 *
US-PATENT-CLASS-427-88	c 44	N79-31752 *	US-PATENT-CLASS-428-312.6	c 44	N83-34448 *	US-PATENT-CLASS-428-447	c 27	N87-14516 *
US-PATENT-CLASS-427-88	c 44	N83-13579 *	US-PATENT-CLASS-428-312	c 27	N78-32260 *	US-PATENT-CLASS-428-447	c 27	N87-23736 *
US-PATENT-CLASS-427-88	c 33	N84-16456 *	US-PATENT-CLASS-428-313	c 24	N78-27180 *	US-PATENT-CLASS-428-448	c 27	N82-24339 *
US-PATENT-CLASS-427-89	c 44	N83-13579 *	US-PATENT-CLASS-428-317.9	c 27	N82-29456 *	US-PATENT-CLASS-428-44	c 24	N88-18628 *
US-PATENT-CLASS-427-90	c 44	N83-13579 *	US-PATENT-CLASS-428-319.1	c 03	N84-33394 *	US-PATENT-CLASS-428-44	c 27	N89-12741 *
US-PATENT-CLASS-427-91	c 44	N83-13579 *	US-PATENT-CLASS-428-325	c 27	N78-32260 *	US-PATENT-CLASS-428-450	c 27	N76-16229 *
US-PATENT-CLASS-427-95	c 25	N79-28253 *	US-PATENT-CLASS-428-325	c 27	N82-29456 *	US-PATENT-CLASS-428-450	c 27	N76-23277 *
US-PATENT-CLASS-427-96	c 33	N84-16456 *	US-PATENT-CLASS-428-325	c 44	N83-34448 *	US-PATENT-CLASS-428-450	c 27	N76-23426 *
US-PATENT-CLASS-428-109	c 27	N76-14264 *	US-PATENT-CLASS-428-328	c 24	N77-27188 *	US-PATENT-CLASS-428-450	c 27	N79-12221 *
US-PATENT-CLASS-428-109	c 33	N79-12331 *	US-PATENT-CLASS-428-331	c 27	N78-32260 *	US-PATENT-CLASS-428-450	c 26	N83-31795 *
US-PATENT-CLASS-428-113	c 24	N81-14000 *	US-PATENT-CLASS-428-331	c 27	N83-18908 *	US-PATENT-CLASS-428-451	c 27	N79-18052 *
US-PATENT-CLASS-428-114	c 24	N81-13999 *	US-PATENT-CLASS-428-332	c 27	N76-22377 *	US-PATENT-CLASS-428-457	c 27	N76-16229 *
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US-PATENT-CLASS-428-116	c 24	N78-10214 *	US-PATENT-CLASS-428-332	c 24	N78-27180 *	US-PATENT-CLASS-428-457	c 24	N77-28225 *
US-PATENT-CLASS-428-116	c 24	N78-17149 *	US-PATENT-CLASS-428-332	c 27	N79-12221 *	US-PATENT-CLASS-428-457	c 26	N82-30371 *
US-PATENT-CLASS-428-116	c 24	N86-28131 *	US-PATENT-CLASS-428-332	c 24	N79-25142 *	US-PATENT-CLASS-428-458	c 24	N77-28225 *
US-PATENT-CLASS-428-117	c 37	N76-24575 *	US-PATENT-CLASS-428-332	c 27	N82-24340 *	US-PATENT-CLASS-428-458	c 24	N79-16915 *
US-PATENT-CLASS-428-117	c 24	N78-15180 *	US-PATENT-CLASS-428-334	c 74	N78-15879 *	US-PATENT-CLASS-428-458	c 27	N86-20561 *
US-PATENT-CLASS-428-117	c 24	N79-16915 *	US-PATENT-CLASS-428-336	c 74	N78-15879 *	US-PATENT-CLASS-428-461	c 34	N77-18382 *
US-PATENT-CLASS-428-119	c 24	N79-16915 *	US-PATENT-CLASS-428-336	c 27	N86-31727 *	US-PATENT-CLASS-428-462	c 27	N82-24340 *
US-PATENT-CLASS-428-133	c 37	N79-10422 *	US-PATENT-CLASS-428-339	c 27	N82-24340 *	US-PATENT-CLASS-428-466	c 27	N82-24340 *
US-PATENT-CLASS-428-137	c 24	N79-25142 *	US-PATENT-CLASS-428-341	c 27	N78-32260 *	US-PATENT-CLASS-428-469	c 27	N76-16229 *
US-PATENT-CLASS-428-138	c 24	N78-10214 *	US-PATENT-CLASS-428-347	c 27	N84-14323 *	US-PATENT-CLASS-428-469	c 26	N83-31795 *
US-PATENT-CLASS-428-139	c 23	N81-29160 *	US-PATENT-CLASS-428-35	c 34	N77-18382 *	US-PATENT-CLASS-428-471	c 26	N81-25188 *
US-PATENT-CLASS-428-140	c 24	N81-14000 *	US-PATENT-CLASS-428-366	c 24	N79-24062 *	US-PATENT-CLASS-428-472	c 26	N82-30371 *
US-PATENT-CLASS-428-141	c 24	N77-28225 *	US-PATENT-CLASS-428-367	c 27	N81-27272 *	US-PATENT-CLASS-428-473.5	c 27	N81-14078 *
US-PATENT-CLASS-428-141	c 27	N82-28440 *	US-PATENT-CLASS-428-367	c 24	N83-33950 *	US-PATENT-CLASS-428-473.5	c 27	N81-29229 *
US-PATENT-CLASS-428-141	c 27	N82-33521 *	US-PATENT-CLASS-428-367	c 27	N84-14322 *	US-PATENT-CLASS-428-473.5	c 27	N84-14322 *
US-PATENT-CLASS-428-155	c 37	N84-22957 *	US-PATENT-CLASS-428-367	c 27	N87-28656 *	US-PATENT-CLASS-428-473.5	c 27	N86-19458 *
US-PATENT-CLASS-428-161	c 24	N77-28225 *	US-PATENT-CLASS-428-367	c 27	N89-29538 *	US-PATENT-CLASS-428-473.5	c 27	N86-20561 *
US-PATENT-CLASS-428-182	c 18	N84-33450 *	US-PATENT-CLASS-428-368	c 24	N77-27188 *	US-PATENT-CLASS-428-473.5	c 24	N86-25416 *
US-PATENT-CLASS-428-182	c 31	N89-12786 *	US-PATENT-CLASS-428-368	c 27	N83-18908 *	US-PATENT-CLASS-428-473.5	c 27	N86-31726 *
US-PATENT-CLASS-428-184	c 18	N84-33450 *	US-PATENT-CLASS-428-370	c 27	N84-22745 *	US-PATENT-CLASS-428-473.5	c 27	N86-31727 *
US-PATENT-CLASS-428-189	c 27	N79-12221 *	US-PATENT-CLASS-428-375	c 24	N79-16915 *	US-PATENT-CLASS-428-473.5	c 27	N87-16909 *
US-PATENT-CLASS-428-192	c 27	N82-24339 *	US-PATENT-CLASS-428-375	c 24	N83-33950 *	US-PATENT-CLASS-428-473.5	c 27	N87-23736 *
US-PATENT-CLASS-428-193	c 27	N82-24339 *	US-PATENT-CLASS-428-375	c 27	N89-29538 *	US-PATENT-CLASS-428-474	c 34	N77-18382 *
US-PATENT-CLASS-428-202	c 27	N84-14323 *	US-PATENT-CLASS-428-390	c 27	N89-29538 *	US-PATENT-CLASS-428-474.4	c 24	N86-25416 *
US-PATENT-CLASS-428-212	c 27	N76-14264 *	US-PATENT-CLASS-428-392	c 24	N83-33950 *	US-PATENT-CLASS-428-474	c 27	N79-33316 *
US-PATENT-CLASS-428-212	c 27	N79-12221 *	US-PATENT-CLASS-428-406	c 27	N78-32260 *	US-PATENT-CLASS-428-474	c 27	N80-24437 *
US-PATENT-CLASS-428-212	c 27	N82-29456 *	US-PATENT-CLASS-428-408	c 27	N81-27272 *	US-PATENT-CLASS-428-477.7	c 24	N86-25416 *
US-PATENT-CLASS-428-214	c 27	N76-14264 *	US-PATENT-CLASS-428-408	c 27	N84-14322 *	US-PATENT-CLASS-428-47	c 27	N89-12741 *
US-PATENT-CLASS-428-218	c 27	N82-29456 *	US-PATENT-CLASS-428-408	c 27	N84-22745 *	US-PATENT-CLASS-428-480	c 24	N81-14000 *
US-PATENT-CLASS-428-218	c 24	N83-13171 *	US-PATENT-CLASS-428-408	c 27	N85-34281 *	US-PATENT-CLASS-428-493	c 27	N82-24340 *
US-PATENT-CLASS-428-220	c 15	N79-26100 *	US-PATENT-CLASS-428-408	c 24	N86-28131 *	US-PATENT-CLASS-428-49	c 27	N82-24339 *
US-PATENT-CLASS-428-241	c 27	N82-24339 *	US-PATENT-CLASS-428-408	c 27	N89-29538 *	US-PATENT-CLASS-428-49	c 27	N82-29456 *
US-PATENT-CLASS-428-241	c 27	N83-18908 *	US-PATENT-CLASS-428-410	c 27	N84-14323 *	US-PATENT-CLASS-428-500	c 27	N80-32516 *
US-PATENT-CLASS-428-242	c 27	N82-24339 *	US-PATENT-CLASS-428-410	c 23	N86-19376 *	US-PATENT-CLASS-428-500	c 27	N87-16909 *
US-PATENT-CLASS-428-244	c 27	N83-18908 *	US-PATENT-CLASS-428-411	c 27	N78-14164 *	US-PATENT-CLASS-428-515	c 27	N78-31233 *
US-PATENT-CLASS-428-245	c 27	N82-24339 *	US-PATENT-CLASS-428-411	c 27	N78-31233 *	US-PATENT-CLASS-428-522	c 27	N78-14164 *
US-PATENT-CLASS-428-245	c 27	N83-18908 *	US-PATENT-CLASS-428-411	c 27	N79-14214 *	US-PATENT-CLASS-428-523	c 27	N78-31233 *
US-PATENT-CLASS-428-246	c 27	N84-14322 *	US-PATENT-CLASS-428-412	c 27	N76-16230 *	US-PATENT-CLASS-428-528	c 24	N81-13999 *
US-PATENT-CLASS-428-246	c 03	N84-33394 *	US-PATENT-CLASS-428-412	c 27	N78-31233 *	US-PATENT-CLASS-428-538	c 27	N76-22377 *
US-PATENT-CLASS-428-247	c 33	N79-12331 *	US-PATENT-CLASS-428-412	c 74	N78-32854 *	US-PATENT-CLASS-428-538	c 27	N76-23426 *
US-PATENT-CLASS-428-247	c 33	N82-26571 *	US-PATENT-CLASS-428-412	c 27	N79-18052 *	US-PATENT-CLASS-428-538	c 27	N78-31233 *
US-PATENT-CLASS-428-251	c 27	N82-24339 *	US-PATENT-CLASS-428-413	c 27	N76-16230 *	US-PATENT-CLASS-428-539	c 27	N76-16229 *
US-PATENT-CLASS-428-257	c 27	N82-24339 *	US-PATENT-CLASS-428-413	c 15	N79-26100 *	US-PATENT-CLASS-428-541	c 24	N81-13999 *
US-PATENT-CLASS-428-258	c 33	N79-12331 *	US-PATENT-CLASS-428-413	c 24	N81-14000 *	US-PATENT-CLASS-428-564	c 26	N84-33555 *
US-PATENT-CLASS-428-259	c 33	N79-12331 *	US-PATENT-CLASS-428-413	c 27	N85-34281 *	US-PATENT-CLASS-428-58	c 27	N89-12741 *
US-PATENT-CLASS-428-260	c 27	N81-27272 *	US-PATENT-CLASS-428-413	c 27	N87-25469 *	US-PATENT-CLASS-428-593	c 24	N82-24296 *
US-PATENT-CLASS-428-260	c 27	N82-24339 *	US-PATENT-CLASS-428-414	c 15	N79-26100 *	US-PATENT-CLASS-428-593	c 24	N84-11214 *
US-PATENT-CLASS-428-260	c 27	N83-18908 *	US-PATENT-CLASS-428-416	c 27	N76-14264 *	US-PATENT-CLASS-428-594	c 24	N82-24296 *
US-PATENT-CLASS-428-260	c 27	N84-14322 *	US-PATENT-CLASS-428-417	c 27	N87-25469 *	US-PATENT-CLASS-428-594	c 24	N82-32417 *
US-PATENT-CLASS-428-260	c 27	N85-34281 *	US-PATENT-CLASS-428-418	c 24	N77-27188 *	US-PATENT-CLASS-428-595	c 18	N84-33450 *
US-PATENT-CLASS-428-262	c 27	N87-14516 *	US-PATENT-CLASS-428-418	c 15	N79-26100 *	US-PATENT-CLASS-428-604	c 24	N82-24296 *
US-PATENT-CLASS-428-263	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 34	N77-18382 *	US-PATENT-CLASS-428-604	c 24	N82-32417 *
US-PATENT-CLASS-428-264	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 15	N79-26100 *	US-PATENT-CLASS-428-607	c 24	N82-32417 *
US-PATENT-CLASS-428-265	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 27	N80-24437 *	US-PATENT-CLASS-428-607	c 26	N87-25455 *
US-PATENT-CLASS-428-266	c 27	N82-24339 *	US-PATENT-CLASS-428-421	c 76	N83-34796 *	US-PATENT-CLASS-428-608	c 24	N82-32417 *
US-PATENT-CLASS-428-267	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 27	N87-16909 *	US-PATENT-CLASS-428-623	c 27	N83-31855 *
US-PATENT-CLASS-428-272	c 27	N82-16238 *	US-PATENT-CLASS-428-421	c 27	N87-23736 *	US-PATENT-CLASS-428-629	c 44	N80-16452 *
US-PATENT-CLASS-428-280	c 27	N79-12221 *	US-PATENT-CLASS-428-422	c 27	N78-31233 *	US-PATENT-CLASS-428-632	c 26	N81-25188 *
US-PATENT-CLASS-428-280	c 03	N84-33394 *	US-PATENT-CLASS-428-422	c 76	N83-34796 *	US-PATENT-CLASS-428-632	c 26	N84-27855 *
US-PATENT-CLASS-428-282	c 24	N79-25142 *	US-PATENT-CLASS-428-422	c 27	N87-23736 *	US-PATENT-CLASS-428-632	c 26	N87-25455 *
US-PATENT-CLASS-428-283	c 24	N82-29362 *	US-PATENT-CLASS-428-423.5	c 03	N84-33394 *	US-PATENT-CLASS-428-633	c 34	N78-18355 *
US-PATENT-CLASS-428-283	c 27	N82-29456 *	US-PATENT-CLASS-428-425	c 24	N77-28225 *	US-PATENT-CLASS-428-633	c 27	N83-31855 *
US-PATENT-CLASS-428-284	c 24	N82-29362 *	US-PATENT-CLASS-428-426	c 74	N78-15879 *	US-PATENT-CLASS-428-633	c 24	N85-21266 *
US-PATENT-CLASS-428-285	c 27	N79-12221 *	US-PATENT-CLASS-428-427	c 27	N78-32260 *	US-PATENT-CLASS-428-633	c 24	N85-35233 *
US-PATENT-CLASS-428-286	c 27	N79-12221 *	US-PATENT-CLASS-428-427	c 44	N83-34448 *	US-PATENT-CLASS-428-639	c 26	N84-33555 *
US-PATENT-CLASS-428-286	c 24	N82-29362 *	US-PATENT-CLASS-428-428	c 27	N76-22377 *	US-PATENT-CLASS-428-63	c 24	N83-31372 *
US-PATENT-CLASS-428-287	c 24	N82-29362 *	US-PATENT-CLASS-428-428	c 27	N76-23426 *	US-PATENT-CLASS-428-641	c 26	N83-31795 *
US-PATENT-CLASS-428-287	c 03	N84-33394 *	US-PATENT-CLASS-428-428	c 74	N78-15879 *	US-PATENT-CLASS-428-641	c 76	N90-19884 *
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US-PATENT-CLASS-48-117	c 28	N80-10374 *	US-PATENT-CLASS-52-646	c 37	N86-32737 *	US-PATENT-CLASS-525-108	c 27	N86-27451 *
US-PATENT-CLASS-48-197-R	c 25	N86-25428 *	US-PATENT-CLASS-52-646	c 31	N87-25492 *	US-PATENT-CLASS-525-113	c 27	N85-34281 *
US-PATENT-CLASS-48-197R	c 44	N76-29704 *	US-PATENT-CLASS-52-646	c 18	N88-28958 *	US-PATENT-CLASS-525-115	c 27	N86-27451 *
US-PATENT-CLASS-48-197R	c 44	N77-10636 *	US-PATENT-CLASS-52-646	c 37	N88-29180 *	US-PATENT-CLASS-525-119	c 27	N85-34281 *
US-PATENT-CLASS-48-212	c 44	N77-10636 *	US-PATENT-CLASS-52-648	c 11	N72-25287 *	US-PATENT-CLASS-525-119	c 27	N86-27451 *
US-PATENT-CLASS-48-215	c 44	N76-29700 *	US-PATENT-CLASS-52-648	c 39	N73-15627 *	US-PATENT-CLASS-525-122	c 27	N86-27451 *
US-PATENT-CLASS-48-61	c 44	N77-10636 *	US-PATENT-CLASS-52-648	c 31	N81-25258 *	US-PATENT-CLASS-525-181	c 27	N83-28240 *
US-PATENT-CLASS-48-61	c 28	N80-10374 *	US-PATENT-CLASS-52-648	c 31	N86-19479 *	US-PATENT-CLASS-525-181	c 27	N85-21349 *
US-PATENT-CLASS-48-63	c 44	N76-18642 *	US-PATENT-CLASS-52-648	c 37	N86-25789 *	US-PATENT-CLASS-525-182	c 27	N85-21349 *
US-PATENT-CLASS-48-75	c 44	N76-18642 *	US-PATENT-CLASS-52-648	c 18	N88-28958 *	US-PATENT-CLASS-525-182	c 27	N87-22845 *
US-PATENT-CLASS-48-89	c 44	N82-16475 *	US-PATENT-CLASS-52-648	c 37	N88-29180 *	US-PATENT-CLASS-525-183	c 27	N83-28240 *
US-PATENT-CLASS-48-95	c 44	N76-18642 *	US-PATENT-CLASS-52-648	c 18	N89-28554 *	US-PATENT-CLASS-525-183	c 27	N85-21349 *
US-PATENT-CLASS-48-95	c 44	N76-29700 *	US-PATENT-CLASS-52-64	c 31	N73-32749 *	US-PATENT-CLASS-525-184	c 27	N83-28240 *
US-PATENT-CLASS-48-99	c 44	N82-16475 *	US-PATENT-CLASS-52-651	c 39	N76-31562 *	US-PATENT-CLASS-525-184	c 27	N85-21349 *
US-PATENT-CLASS-49-DIG.1	c 34	N78-25350 *	US-PATENT-CLASS-52-655	c 11	N72-25287 *	US-PATENT-CLASS-525-186	c 27	N85-34281 *
US-PATENT-CLASS-49-171	c 31	N81-19343 *	US-PATENT-CLASS-52-705	c 37	N76-19437 *	US-PATENT-CLASS-525-186	c 27	N86-20560 *
US-PATENT-CLASS-49-253	c 18	N90-19278 *	US-PATENT-CLASS-52-71	c 18	N75-27040 *	US-PATENT-CLASS-525-229	c 27	N85-34281 *
US-PATENT-CLASS-49-479	c 34	N78-25350 *	US-PATENT-CLASS-52-726	c 39	N73-15627 *	US-PATENT-CLASS-525-226	c 27	N85-29043 *
US-PATENT-CLASS-49-485	c 34	N78-25350 *	US-PATENT-CLASS-52-726	c 31	N81-25258 *	US-PATENT-CLASS-525-282	c 27	N84-14322 *
US-PATENT-CLASS-49-68	c 18	N74-22136 *	US-PATENT-CLASS-52-743	c 37	N81-14317 *	US-PATENT-CLASS-525-282	c 27	N87-15304 *
US-PATENT-CLASS-5-345	c 05	N70-33285 *	US-PATENT-CLASS-52-745	c 39	N76-31562 *	US-PATENT-CLASS-525-287	c 27	N84-14322 *
US-PATENT-CLASS-5-459	c 03	N84-33394 *	US-PATENT-CLASS-52-745	c 31	N81-27323 *	US-PATENT-CLASS-525-326	c 27	N80-24438 *
US-PATENT-CLASS-5-69	c 05	N72-11085 *	US-PATENT-CLASS-52-745	c 37	N85-30335 *	US-PATENT-CLASS-525-336	c 27	N80-24438 *
US-PATENT-CLASS-5-81-R	c 05	N87-21755 *	US-PATENT-CLASS-52-749	c 39	N76-31562 *	US-PATENT-CLASS-525-340	c 27	N80-24438 *
US-PATENT-CLASS-5-82	c 05	N71-23159 *	US-PATENT-CLASS-52-758F	c 37	N76-19437 *	US-PATENT-CLASS-525-36	c 27	N87-22848 *
US-PATENT-CLASS-501-88	c 27	N88-29040 *	US-PATENT-CLASS-52-806	c 24	N84-11214 *	US-PATENT-CLASS-525-374	c 27	N80-24438 *
US-PATENT-CLASS-501-91	c 27	N88-29040 *	US-PATENT-CLASS-52-808	c 24	N84-11214 *	US-PATENT-CLASS-525-375	c 27	N80-24438 *
US-PATENT-CLASS-501-92	c 27	N88-29040 *	US-PATENT-CLASS-52-80	c 18	N72-25540 *	US-PATENT-CLASS-525-384	c 28	N81-15119 *
US-PATENT-CLASS-501-93	c 27	N88-29040 *	US-PATENT-CLASS-52-80	c 18	N72-25541 *	US-PATENT-CLASS-525-389	c 27	N84-22750 *
US-PATENT-CLASS-501-93	c 27	N88-29040 *	US-PATENT-CLASS-52-80	c 31	N73-32749 *	US-PATENT-CLASS-525-397	c 27	N88-18725 *
US-PATENT-CLASS-51-170	c 15	N71-26134 *	US-PATENT-CLASS-52-814	c 18	N84-33450 *	US-PATENT-CLASS-525-417	c 27	N84-22745 *
US-PATENT-CLASS-51-216	c 15	N72-20444 *	US-PATENT-CLASS-52-814	c 31	N87-16918 *	US-PATENT-CLASS-525-420	c 27	N85-20123 *
US-PATENT-CLASS-51-225	c 37	N74-27905 *	US-PATENT-CLASS-52-814	c 31	N89-12786 *	US-PATENT-CLASS-525-423	c 24	N86-19380 *
US-PATENT-CLASS-51-234	c 37	N74-27905 *	US-PATENT-CLASS-52-81	c 37	N82-32732 *	US-PATENT-CLASS-525-425	c 33	N88-23941 *
US-PATENT-CLASS-51-235	c 37	N78-17383 *	US-PATENT-CLASS-52-821	c 31	N89-12786 *	US-PATENT-CLASS-525-426	c 27	N80-26446 *
US-PATENT-CLASS-51-235	c 76	N80-18951 *	US-PATENT-CLASS-52-821	c 31	N89-12786 *	US-PATENT-CLASS-525-426	c 27	N84-22746 *
US-PATENT-CLASS-51-277	c 74	N80-24149 *	US-PATENT-CLASS-521-124	c 25	N80-16116 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *
US-PATENT-CLASS-51-281-R	c 31	N87-25491 *	US-PATENT-CLASS-521-125	c 25	N80-16116 *	US-PATENT-CLASS-525-426	c 27	N87-28657 *
US-PATENT-CLASS-51-283R	c 74	N80-24149 *	US-PATENT-CLASS-521-127	c 25	N80-16116 *	US-PATENT-CLASS-525-432	c 27	N86-19456 *
US-PATENT-CLASS-51-283	c 46	N74-23069 *	US-PATENT-CLASS-521-141	c 51	N84-28361 *	US-PATENT-CLASS-525-432	c 27	N87-28657 *
US-PATENT-CLASS-51-320	c 15	N72-20444 *	US-PATENT-CLASS-521-142	c 51	N84-28361 *	US-PATENT-CLASS-525-436	c 27	N86-19456 *
US-PATENT-CLASS-51-320	c 15	N72-20444 *	US-PATENT-CLASS-521-145	c 27	N90-16949 *	US-PATENT-CLASS-525-436	c 27	N87-28657 *
US-PATENT-CLASS-51-323	c 15	N72-20444 *	US-PATENT-CLASS-521-146	c 25	N80-23383 *	US-PATENT-CLASS-525-474	c 27	N83-28240 *
US-PATENT-CLASS-51-57	c 15	N71-22705 *	US-PATENT-CLASS-521-149	c 51	N84-28361 *	US-PATENT-CLASS-525-474	c 27	N85-21349 *
US-PATENT-CLASS-51-73R	c 37	N85-21650 *	US-PATENT-CLASS-521-157	c 25	N80-16116 *	US-PATENT-CLASS-525-474	c 27	N85-20943 *
US-PATENT-CLASS-51-97R	c 37	N74-27905 *	US-PATENT-CLASS-521-178	c 27	N90-16949 *	US-PATENT-CLASS-525-484	c 24	N84-34571 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25540 *	US-PATENT-CLASS-521-189	c 27	N90-16949 *	US-PATENT-CLASS-525-4	c 25	N80-23383 *
US-PATENT-CLASS-52-DIG.10	c 18	N72-25541 *	US-PATENT-CLASS-521-27	c 27	N81-14076 *	US-PATENT-CLASS-525-527	c 24	N86-19380 *
US-PATENT-CLASS-52-108	c 15	N72-18477 *	US-PATENT-CLASS-521-32	c 27	N81-14076 *	US-PATENT-CLASS-525-532	c 23	N85-28973 *
US-PATENT-CLASS-52-108	c 31	N81-27323 *	US-PATENT-CLASS-521-32	c 27	N81-14076 *	US-PATENT-CLASS-525-534	c 27	N84-22747 *
US-PATENT-CLASS-52-108	c 31	N87-25492 *	US-PATENT-CLASS-521-55	c 25	N80-23383 *	US-PATENT-CLASS-525-534	c 23	N85-28973 *
US-PATENT-CLASS-52-109	c 31	N73-32749 *	US-PATENT-CLASS-521-62	c 27	N81-14076 *	US-PATENT-CLASS-525-534	c 23	N85-28973 *
US-PATENT-CLASS-52-110	c 37	N86-25791 *	US-PATENT-CLASS-521-82	c 27	N90-16949 *	US-PATENT-CLASS-525-534	c 27	N86-27450 *
US-PATENT-CLASS-52-111	c 31	N81-27324 *	US-PATENT-CLASS-521-918	c 25	N80-23383 *	US-PATENT-CLASS-525-535	c 27	N84-22747 *
US-PATENT-CLASS-52-111	c 37	N86-25789 *	US-PATENT-CLASS-521-97	c 27	N90-16949 *	US-PATENT-CLASS-525-535	c 27	N86-27450 *
US-PATENT-CLASS-52-111	c 37	N86-32737 *	US-PATENT-CLASS-521-98	c 27	N90-16949 *	US-PATENT-CLASS-525-536	c 27	N84-22747 *
US-PATENT-CLASS-52-117	c 44	N77-32582 *	US-PATENT-CLASS-523-135	c 27	N85-29044 *	US-PATENT-CLASS-525-56	c 23	N81-29160 *
US-PATENT-CLASS-52-126.5	c 31	N87-16918 *	US-PATENT-CLASS-523-205	c 27	N83-19900 *	US-PATENT-CLASS-525-61	c 27	N81-24257 *
US-PATENT-CLASS-52-127.7	c 37	N85-30335 *	US-PATENT-CLASS-523-433	c 24	N86-19380 *	US-PATENT-CLASS-525-61	c 23	N81-29160 *
US-PATENT-CLASS-52-127	c 15	N71-21531 *	US-PATENT-CLASS-523-434	c 27	N86-27451 *	US-PATENT-CLASS-525-61	c 25	N83-13188 *
US-PATENT-CLASS-52-169	c 15	N72-25454 *	US-PATENT-CLASS-523-435	c 24	N84-11213 *	US-PATENT-CLASS-525-903	c 27	N87-28657 *
US-PATENT-CLASS-52-171	c 11	N73-12265 *	US-PATENT-CLASS-523-440	c 27	N83-34043 *	US-PATENT-CLASS-525-905	c 27	N88-18725 *
US-PATENT-CLASS-52-171	c 74	N85-29750 *	US-PATENT-CLASS-523-443	c 27	N83-34043 *	US-PATENT-CLASS-526-13	c 27	N78-32256 *
US-PATENT-CLASS-52-173R	c 44	N77-31601 *	US-PATENT-CLASS-523-445	c 24	N86-19380 *	US-PATENT-CLASS-526-193	c 27	N78-15276 *
US-PATENT-CLASS-52-173	c 15	N72-25454 *	US-PATENT-CLASS-523-445	c 27	N86-27451 *	US-PATENT-CLASS-526-193	c 27	N78-15276 *
US-PATENT-CLASS-52-1	c 15	N72-28496 *	US-PATENT-CLASS-523-454	c 24	N84-34571 *	US-PATENT-CLASS-526-1	c 27	N76-24405 *
US-PATENT-CLASS-52-232	c 37	N81-14317 *	US-PATENT-CLASS-523-454	c 27	N85-34282 *	US-PATENT-CLASS-526-201	c 25	N81-19242 *
US-PATENT-CLASS-52-236	c 39	N76-31562 *	US-PATENT-CLASS-523-456	c 24	N84-11213 *	US-PATENT-CLASS-526-204	c 25	N85-30039 *
US-PATENT-CLASS-52-249	c 33	N71-25351 *	US-PATENT-CLASS-523-458	c 24	N84-34571 *	US-PATENT-CLASS-526-217	c 25	N85-30039 *
US-PATENT-CLASS-52-272	c 31	N71-24035 *	US-PATENT-CLASS-523-458	c 27	N85-34282 *	US-PATENT-CLASS-526-217	c 25	N85-30039 *
US-PATENT-CLASS-52-284	c 32	N73-13921 *	US-PATENT-CLASS-523-461	c 27	N86-27451 *	US-PATENT-CLASS-526-225	c 27	N78-15276 *
US-PATENT-CLASS-52-2	c 32	N71-21045 *	US-PATENT-CLASS-523-461	c 27	N86-27451 *	US-PATENT-CLASS-526-23	c 27	N78-32256 *
US-PATENT-CLASS-52-2	c 44	N77-32583 *	US-PATENT-CLASS-523-66468	c 24	N86-19380 *	US-PATENT-CLASS-526-255	c 27	N76-24405 *
US-PATENT-CLASS-52-309.15	c 31	N87-16918 *	US-PATENT-CLASS-524-104	c 27	N83-28240 *	US-PATENT-CLASS-526-259	c 27	N83-34040 *
US-PATENT-CLASS-52-309.1	c 31	N81-25258 *	US-PATENT-CLASS-524-173	c 27	N84-22747 *	US-PATENT-CLASS-526-261	c 27	N80-24438 *
US-PATENT-CLASS-52-391	c 31	N87-16918 *	US-PATENT-CLASS-524-233	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N81-27732 *
US-PATENT-CLASS-52-3	c 31	N71-16080 *	US-PATENT-CLASS-524-233	c 27	N83-28240 *	US-PATENT-CLASS-526-262	c 27	N84-22745 *
US-PATENT-CLASS-52-404	c 33	N71-25351 *	US-PATENT-CLASS-524-366	c 27	N90-16950 *	US-PATENT-CLASS-526-262	c 27	N84-27885 *
US-PATENT-CLASS-52-404	c 16	N84-22601 *	US-PATENT-CLASS-524-378	c 27	N90-16950 *	US-PATENT-CLASS-526-262	c 27	N85-21347 *
US-PATENT-CLASS-52-506	c 16	N84-22601 *	US-PATENT-CLASS-524-378	c 27	N90-16950 *	US-PATENT-CLASS-526-262	c 27	N85-21350 *
US-PATENT-CLASS-52-506	c 37	N85-30335 *	US-PATENT-CLASS-524-388	c 27	N85-29044 *	US-PATENT-CLASS-526-262	c 27	N85-21352 *
US-PATENT-CLASS-52-511	c 31	N87-16918 *	US-PATENT-CLASS-524-404	c 27	N87-22845 *	US-PATENT-CLASS-526-262	c 25	N85-28982 *
US-PATENT-CLASS-52-51	c 44	N77-31601 *	US-PATENT-CLASS-524-436	c 27	N83-19900 *	US-PATENT-CLASS-526-262	c 25	N85-30039 *

US-PATENT-CLASS-526-262	c 27	N86-20560 *	US-PATENT-CLASS-528-220	c 27	N89-16042 *	US-PATENT-CLASS-528-345	c 27	N84-22746 *
US-PATENT-CLASS-526-262	c 24	N86-21590 *	US-PATENT-CLASS-528-221	c 27	N79-28307 *	US-PATENT-CLASS-528-345	c 27	N85-20123 *
US-PATENT-CLASS-526-262	c 27	N87-22845 *	US-PATENT-CLASS-528-222	c 27	N81-29229 *	US-PATENT-CLASS-528-345	c 27	N86-19457 *
US-PATENT-CLASS-526-265	c 27	N86-20560 *	US-PATENT-CLASS-528-222	c 27	N83-34040 *	US-PATENT-CLASS-528-347	c 27	N86-32568 #
US-PATENT-CLASS-526-265	c 24	N86-28131 *	US-PATENT-CLASS-528-222	c 27	N83-34041 *	US-PATENT-CLASS-528-348	c 27	N84-22746 *
US-PATENT-CLASS-526-274	c 27	N85-21347 *	US-PATENT-CLASS-528-222	c 27	N86-29039 *	US-PATENT-CLASS-528-351	c 27	N82-11206 *
US-PATENT-CLASS-526-275	c 27	N78-32256 *	US-PATENT-CLASS-528-223	c 27	N79-28307 *	US-PATENT-CLASS-528-352	c 27	N85-21348 *
US-PATENT-CLASS-526-275	c 27	N80-24438 *	US-PATENT-CLASS-528-225	c 27	N79-28307 *	US-PATENT-CLASS-528-352	c 27	N85-34280 *
US-PATENT-CLASS-526-276	c 27	N78-32256 *	US-PATENT-CLASS-528-225	c 27	N82-11206 *	US-PATENT-CLASS-528-352	c 27	N86-19456 *
US-PATENT-CLASS-526-276	c 27	N80-24438 *	US-PATENT-CLASS-528-226	c 27	N83-34041 *	US-PATENT-CLASS-528-352	c 23	N86-32525 *
US-PATENT-CLASS-526-278	c 27	N78-32256 *	US-PATENT-CLASS-528-226	c 27	N85-20124 *	US-PATENT-CLASS-528-352	c 23	N90-19300 *
US-PATENT-CLASS-526-278	c 27	N80-24438 *	US-PATENT-CLASS-528-226	c 27	N85-21348 *	US-PATENT-CLASS-528-353	c 27	N81-19296 *
US-PATENT-CLASS-526-27	c 27	N78-32256 *	US-PATENT-CLASS-528-227	c 27	N79-28307 *	US-PATENT-CLASS-528-353	c 27	N82-11206 *
US-PATENT-CLASS-526-285	c 27	N83-34040 *	US-PATENT-CLASS-528-228	c 27	N81-27272 *	US-PATENT-CLASS-528-353	c 27	N85-21348 *
US-PATENT-CLASS-526-285	c 27	N86-27450 *	US-PATENT-CLASS-528-228	c 27	N82-11206 *	US-PATENT-CLASS-528-353	c 27	N85-34280 *
US-PATENT-CLASS-526-328	c 27	N85-29043 *	US-PATENT-CLASS-528-228	c 27	N83-34040 *	US-PATENT-CLASS-528-353	c 27	N86-19456 *
US-PATENT-CLASS-526-329.2	c 27	N85-29043 *	US-PATENT-CLASS-528-228	c 27	N84-22745 *	US-PATENT-CLASS-528-353	c 27	N89-16042 *
US-PATENT-CLASS-526-49	c 27	N78-32256 *	US-PATENT-CLASS-528-228	c 27	N89-16042 *	US-PATENT-CLASS-528-353	c 27	N90-16950 *
US-PATENT-CLASS-526-50	c 27	N78-32256 *	US-PATENT-CLASS-528-229	c 27	N79-28307 *	US-PATENT-CLASS-528-353	c 23	N90-19300 *
US-PATENT-CLASS-526-7	c 44	N79-25481 *	US-PATENT-CLASS-528-229	c 27	N79-33316 *	US-PATENT-CLASS-528-361	c 24	N84-11213 *
US-PATENT-CLASS-526-88	c 25	N81-19242 *	US-PATENT-CLASS-528-229	c 27	N81-29229 *	US-PATENT-CLASS-528-362	c 25	N81-14016 *
US-PATENT-CLASS-526-914	c 28	N81-15119 *	US-PATENT-CLASS-528-229	c 27	N83-34040 *	US-PATENT-CLASS-528-362	c 27	N81-17259 *
US-PATENT-CLASS-526-9	c 44	N79-25481 *	US-PATENT-CLASS-528-229	c 27	N85-21348 *	US-PATENT-CLASS-528-362	c 27	N81-17262 *
US-PATENT-CLASS-528-102	c 24	N86-19380 *	US-PATENT-CLASS-528-229	c 27	N85-21350 *	US-PATENT-CLASS-528-362	c 27	N82-24338 *
US-PATENT-CLASS-528-103	c 24	N86-19380 *	US-PATENT-CLASS-528-229	c 27	N85-21351 *	US-PATENT-CLASS-528-362	c 27	N84-22744 *
US-PATENT-CLASS-528-106	c 27	N85-34282 *	US-PATENT-CLASS-528-229	c 27	N85-21352 *	US-PATENT-CLASS-528-362	c 27	N84-27884 *
US-PATENT-CLASS-528-108	c 23	N86-32525 *	US-PATENT-CLASS-528-229	c 27	N85-34280 *	US-PATENT-CLASS-528-362	c 27	N87-21112 *
US-PATENT-CLASS-528-108	c 27	N87-25469 *	US-PATENT-CLASS-528-229	c 27	N85-34282 *	US-PATENT-CLASS-528-38	c 27	N83-34040 *
US-PATENT-CLASS-528-10	c 27	N88-29040 *	US-PATENT-CLASS-528-229	c 27	N86-19457 *	US-PATENT-CLASS-528-394	c 27	N84-22750 *
US-PATENT-CLASS-528-110	c 24	N84-11213 *	US-PATENT-CLASS-528-229	c 27	N87-21112 *	US-PATENT-CLASS-528-399	c 27	N81-27271 *
US-PATENT-CLASS-528-113	c 27	N85-34281 *	US-PATENT-CLASS-528-229	c 27	N87-22847 *	US-PATENT-CLASS-528-399	c 27	N82-18389 *
US-PATENT-CLASS-528-117	c 27	N85-34281 *	US-PATENT-CLASS-528-229	c 23	N90-19300 *	US-PATENT-CLASS-528-399	c 27	N84-22750 *
US-PATENT-CLASS-528-118	c 27	N81-17260 *	US-PATENT-CLASS-528-239	c 27	N85-20124 *	US-PATENT-CLASS-528-399	c 23	N86-32525 *
US-PATENT-CLASS-528-124	c 23	N86-32525 *	US-PATENT-CLASS-528-241	c 27	N85-20124 *	US-PATENT-CLASS-528-401	c 27	N79-22300 *
US-PATENT-CLASS-528-125	c 27	N83-34040 *	US-PATENT-CLASS-528-258	c 27	N85-20124 *	US-PATENT-CLASS-528-401	c 25	N81-14016 *
US-PATENT-CLASS-528-125	c 27	N84-22749 *	US-PATENT-CLASS-528-25	c 27	N84-22747 *	US-PATENT-CLASS-528-401	c 27	N81-17259 *
US-PATENT-CLASS-528-125	c 27	N85-21348 *	US-PATENT-CLASS-528-26	c 27	N84-22747 *	US-PATENT-CLASS-528-401	c 27	N81-17262 *
US-PATENT-CLASS-528-125	c 27	N89-14337 *	US-PATENT-CLASS-528-26	c 27	N87-14516 *	US-PATENT-CLASS-528-401	c 27	N82-24338 *
US-PATENT-CLASS-528-125	c 27	N90-16950 *	US-PATENT-CLASS-528-271	c 27	N84-27884 *	US-PATENT-CLASS-528-401	c 23	N82-28353 *
US-PATENT-CLASS-528-126	c 27	N79-28307 *	US-PATENT-CLASS-528-279	c 27	N85-20124 *	US-PATENT-CLASS-528-401	c 27	N84-22744 *
US-PATENT-CLASS-528-126	c 27	N82-11206 *	US-PATENT-CLASS-528-288	c 27	N85-29043 *	US-PATENT-CLASS-528-402	c 25	N82-24312 *
US-PATENT-CLASS-528-126	c 27	N83-34040 *	US-PATENT-CLASS-528-289	c 27	N85-29043 *	US-PATENT-CLASS-528-406	c 23	N86-32525 *
US-PATENT-CLASS-528-126	c 27	N85-21348 *	US-PATENT-CLASS-528-303	c 27	N85-29043 *	US-PATENT-CLASS-528-407	c 24	N84-34571 *
US-PATENT-CLASS-528-127	c 27	N79-28307 *	US-PATENT-CLASS-528-304	c 27	N85-29043 *	US-PATENT-CLASS-528-407	c 27	N85-34281 *
US-PATENT-CLASS-528-128	c 27	N79-28307 *	US-PATENT-CLASS-528-30	c 27	N88-29040 *	US-PATENT-CLASS-528-407	c 27	N85-34282 *
US-PATENT-CLASS-528-128	c 27	N83-34040 *	US-PATENT-CLASS-528-310	c 27	N81-17262 *	US-PATENT-CLASS-528-407	c 23	N86-32525 *
US-PATENT-CLASS-528-128	c 27	N84-22749 *	US-PATENT-CLASS-528-310	c 27	N81-24256 *	US-PATENT-CLASS-528-413	c 27	N87-24564 *
US-PATENT-CLASS-528-128	c 27	N85-21348 *	US-PATENT-CLASS-528-310	c 27	N82-24338 *	US-PATENT-CLASS-528-422	c 27	N79-22300 *
US-PATENT-CLASS-528-128	c 27	N89-14337 *	US-PATENT-CLASS-528-310	c 27	N84-27884 *	US-PATENT-CLASS-528-422	c 25	N81-14016 *
US-PATENT-CLASS-528-12	c 27	N83-34040 *	US-PATENT-CLASS-528-310	c 23	N86-19376 *	US-PATENT-CLASS-528-422	c 27	N81-17259 *
US-PATENT-CLASS-528-166	c 27	N85-21348 *	US-PATENT-CLASS-528-314	c 25	N85-30039 *	US-PATENT-CLASS-528-422	c 27	N81-17262 *
US-PATENT-CLASS-528-167	c 27	N85-21347 *	US-PATENT-CLASS-528-315	c 27	N85-21350 *	US-PATENT-CLASS-528-422	c 27	N82-24338 *
US-PATENT-CLASS-528-168	c 27	N81-27271 *	US-PATENT-CLASS-528-321	c 27	N85-21347 *	US-PATENT-CLASS-528-422	c 23	N82-28353 *
US-PATENT-CLASS-528-168	c 27	N82-18389 *	US-PATENT-CLASS-528-321	c 24	N86-25416 *	US-PATENT-CLASS-528-422	c 27	N84-22744 *
US-PATENT-CLASS-528-168	c 27	N85-21347 *	US-PATENT-CLASS-528-321	c 27	N86-31726 #	US-PATENT-CLASS-528-423	c 27	N81-17259 *
US-PATENT-CLASS-528-168	c 27	N85-34280 *	US-PATENT-CLASS-528-321	c 27	N87-16909 *	US-PATENT-CLASS-528-423	c 27	N84-22744 *
US-PATENT-CLASS-528-168	c 27	N87-16909 *	US-PATENT-CLASS-528-321	c 27	N89-16042 *	US-PATENT-CLASS-528-481	c 27	N80-24438 *
US-PATENT-CLASS-528-168	c 27	N87-25469 *	US-PATENT-CLASS-528-322	c 27	N81-17260 *	US-PATENT-CLASS-528-4	c 27	N81-27271 *
US-PATENT-CLASS-528-170	c 27	N85-21347 *	US-PATENT-CLASS-528-322	c 27	N84-22745 *	US-PATENT-CLASS-528-4	c 27	N82-18389 *
US-PATENT-CLASS-528-170	c 24	N86-25416 *	US-PATENT-CLASS-528-322	c 27	N84-27885 *	US-PATENT-CLASS-528-4	c 27	N88-29040 *
US-PATENT-CLASS-528-170	c 27	N86-31726 #	US-PATENT-CLASS-528-322	c 27	N85-21347 *	US-PATENT-CLASS-528-6	c 27	N81-27271 *
US-PATENT-CLASS-528-171	c 27	N86-27450 *	US-PATENT-CLASS-528-322	c 27	N85-21350 *	US-PATENT-CLASS-528-6	c 27	N82-18389 *
US-PATENT-CLASS-528-172	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 27	N85-21351 *	US-PATENT-CLASS-528-6	c 27	N84-22750 *
US-PATENT-CLASS-528-172	c 27	N84-22749 *	US-PATENT-CLASS-528-322	c 27	N85-21352 *	US-PATENT-CLASS-528-72	c 27	N89-16042 *
US-PATENT-CLASS-528-173	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 25	N85-28982 *	US-PATENT-CLASS-528-73	c 25	N80-16116 *
US-PATENT-CLASS-528-174	c 27	N86-27450 *	US-PATENT-CLASS-528-322	c 25	N85-30039 *	US-PATENT-CLASS-528-73	c 27	N89-16042 *
US-PATENT-CLASS-528-176	c 27	N86-27450 *	US-PATENT-CLASS-528-322	c 27	N86-19457 *	US-PATENT-CLASS-528-7	c 27	N82-18389 *
US-PATENT-CLASS-528-176	c 27	N87-22848 *	US-PATENT-CLASS-528-322	c 24	N86-25416 *	US-PATENT-CLASS-528-7	c 27	N84-22750 *
US-PATENT-CLASS-528-179	c 27	N86-19456 *	US-PATENT-CLASS-528-322	c 27	N86-31726 #	US-PATENT-CLASS-528-86	c 23	N82-28353 *
US-PATENT-CLASS-528-180	c 27	N82-11206 *	US-PATENT-CLASS-528-322	c 27	N87-16909 *	US-PATENT-CLASS-528-92	c 24	N84-34571 *
US-PATENT-CLASS-528-182	c 27	N86-19456 *	US-PATENT-CLASS-528-322	c 27	N87-21112 *	US-PATENT-CLASS-528-92	c 27	N85-34282 *
US-PATENT-CLASS-528-183	c 27	N84-22746 *	US-PATENT-CLASS-528-322	c 27	N89-16042 *	US-PATENT-CLASS-528-94	c 27	N85-34281 *
US-PATENT-CLASS-528-183	c 27	N85-20123 *	US-PATENT-CLASS-528-327	c 27	N84-27884 *	US-PATENT-CLASS-53-102	c 15	N71-21528 *
US-PATENT-CLASS-528-183	c 27	N86-29039 *	US-PATENT-CLASS-528-327	c 27	N86-19455 *	US-PATENT-CLASS-53-112A	c 15	N73-27405 *
US-PATENT-CLASS-528-184	c 27	N87-22848 *	US-PATENT-CLASS-528-327	c 27	N87-21112 *	US-PATENT-CLASS-53-22A	c 15	N71-23256 *
US-PATENT-CLASS-528-185	c 27	N84-22749 *	US-PATENT-CLASS-528-328	c 27	N82-24338 *	US-PATENT-CLASS-53-429	c 09	N82-29330 *
US-PATENT-CLASS-528-185	c 27	N85-21348 *	US-PATENT-CLASS-528-331	c 27	N79-28307 *	US-PATENT-CLASS-53-9	c 37	N77-23482 *
US-PATENT-CLASS-528-185	c 27	N86-19456 *	US-PATENT-CLASS-528-331	c 27	N84-27884 *	US-PATENT-CLASS-536-105	c 27	N77-30236 *
US-PATENT-CLASS-528-186	c 27	N85-21348 *	US-PATENT-CLASS-528-331	c 27	N87-21112 *	US-PATENT-CLASS-536-105	c 27	N77-30236 *
US-PATENT-CLASS-528-187	c 27	N85-21348 *	US-PATENT-CLASS-528-336	c 27	N79-28307 *	US-PATENT-CLASS-536-56	c 27	N77-30236 *
US-PATENT-CLASS-528-188	c 23	N90-19300 *	US-PATENT-CLASS-528-336	c 27	N85-20123 *	US-PATENT-CLASS-536-56	c 27	N77-30236 *
US-PATENT-CLASS-528-192	c 27	N85-20123 *	US-PATENT-CLASS-528-336	c 27	N85-21350 *	US-PATENT-CLASS-536-58	c 27	N77-30236 *
US-PATENT-CLASS-528-192	c 27	N87-22848 *	US-PATENT-CLASS-528-336	c 27	N86-32568 #	US-PATENT-CLASS-536-84	c 27	N77-30236 *
US-PATENT-CLASS-528-193	c 27	N87-22848 *	US-PATENT-CLASS-528-337	c 27	N79-28307 *	US-PATENT-CLASS-538-117	c 27	N81-17260 *
US-PATENT-CLASS-528-207	c 27	N80-16158 *	US-PATENT-CLASS-528-337	c 23	N86-32525 *	US-PATENT-CLASS-544-193	c 27	N78-15276 *
US-PATENT-CLASS-528-207	c 27	N82-11206 *	US-PATENT-CLASS-528-337	c 27	N86-32568 #	US-PATENT-CLASS-544-193	c 27	N79-28307 *
US-PATENT-CLASS-528-208	c 27	N80-16158 *	US-PATENT-CLASS-528-338	c 27	N79-28307 *	US-PATENT-CLASS-544-195	c 27	N78-32256 *
US-PATENT-CLASS-528-208	c 27	N82-11206 *	US-PATENT-CLASS-528-340	c 27	N86-32568 #	US-PATENT-CLASS-544-215	c 27	N84-22744 *
US-PATENT-CLASS-528-210	c 27	N82-11206 *	US-PATENT-CLASS-528-341	c 27	N86-29039 *	US-PATENT-CLASS-546-262	c 27	N87-22847 *
US-PATENT-CLASS-528-211	c 27	N82-11206 *	US-PATENT-CLASS-528-342	c 27	N79-28307 *	US-PATENT-CLASS-546-262	c 27	N87-22847 *
US-PATENT-CLASS-528-220	c 27	N83-34040 *	US-PATENT-CLASS-528-342	c 27	N84-27885 *	US-PATENT-CLASS-546-339	c 27	N87-16908 *
US-PATENT-CLASS-528-220	c 27	N84-22746 *	US-PATENT-CLASS-528-342	c 27	N85-21350 *	US-PATENT-CLASS-546-346	c 27	N87-16908 *
US-PATENT-CLASS-528-220	c 27	N85-20123 *	US-PATENT-CLASS-528-342	c 27	N85-21351 *	US-PATENT-CLASS-546-350	c 27	N87-16908 *
US-PATENT-CLASS-528-220	c 24	N86-25416 *	US-PATENT-CLASS-528-342	c 27	N85-21352 *	US-PATENT-CLASS-547-131	c 23	N82-28353 *
US-PATENT-CLASS-528-220	c 27	N86-31726 #	US-PATENT-CLASS-528-342	c 25	N85-28982 *	US-PATENT-CLASS-548-413	c 27	N83-31854 *
US-PATENT-CLASS-528-220	c 27	N87-21112 *	US-PATENT-CLASS-528-342	c 27	N86-19457 *	US-PATENT-CLASS-548-413	c 23	N86-19376 *

US-PATENT-CLASS-548-413	c 27	N87-23751 *	US-PATENT-CLASS-558-190	c 23	N87-28605 *	US-PATENT-CLASS-60-239	c 07	N81-19116 *
US-PATENT-CLASS-548-415	c 27	N83-31854 *	US-PATENT-CLASS-558-193	c 23	N87-28605 *	US-PATENT-CLASS-60-23	c 09	N71-26182 *
US-PATENT-CLASS-548-415	c 27	N84-22745 *	US-PATENT-CLASS-558-80	c 23	N88-24692 *	US-PATENT-CLASS-60-23	c 15	N72-12409 *
US-PATENT-CLASS-549-241	c 23	N88-26404 *	US-PATENT-CLASS-56-73	c 74	N86-26190 *	US-PATENT-CLASS-60-23	c 21	N72-31637 *
US-PATENT-CLASS-549-335	c 23	N85-33187 *	US-PATENT-CLASS-560-104	c 27	N87-16907 *	US-PATENT-CLASS-60-23	c 15	N73-13467 *
US-PATENT-CLASS-55-DIG.25	c 35	N84-17555 *	US-PATENT-CLASS-564-113	c 23	N86-19376 *	US-PATENT-CLASS-60-240	c 28	N71-24736 *
US-PATENT-CLASS-55-DIG.30	c 35	N84-17555 *	US-PATENT-CLASS-564-13	c 23	N88-24692 *	US-PATENT-CLASS-60-240	c 28	N73-13773 *
US-PATENT-CLASS-55-DIG.35	c 35	N75-27761 *	US-PATENT-CLASS-564-15	c 27	N86-32568 *	US-PATENT-CLASS-60-240	c 07	N80-18039 *
US-PATENT-CLASS-55-DIG.42	c 37	N85-29283 *	US-PATENT-CLASS-564-229	c 27	N81-24256 *	US-PATENT-CLASS-60-243	c 33	N71-21507 *
US-PATENT-CLASS-55-100	c 35	N78-12390 *	US-PATENT-CLASS-564-229	c 23	N82-28353 *	US-PATENT-CLASS-60-243	c 15	N71-27432 *
US-PATENT-CLASS-55-100	c 25	N78-25148 *	US-PATENT-CLASS-564-243	c 27	N84-22744 *	US-PATENT-CLASS-60-243	c 28	N73-13773 *
US-PATENT-CLASS-55-101	c 25	N78-25148 *	US-PATENT-CLASS-564-243	c 23	N86-21582 *	US-PATENT-CLASS-60-243	c 20	N79-21124 *
US-PATENT-CLASS-55-105	c 35	N84-17555 *	US-PATENT-CLASS-564-315	c 23	N89-12667 *	US-PATENT-CLASS-60-251	c 28	N70-41311 *
US-PATENT-CLASS-55-118	c 35	N79-17192 *	US-PATENT-CLASS-564-323	c 23	N89-12667 *	US-PATENT-CLASS-60-251	c 27	N71-21819 *
US-PATENT-CLASS-55-122	c 35	N79-17192 *	US-PATENT-CLASS-564-330	c 27	N87-22847 *	US-PATENT-CLASS-60-254	c 28	N72-20758 *
US-PATENT-CLASS-55-126	c 35	N84-17555 *	US-PATENT-CLASS-564-330	c 23	N89-12667 *	US-PATENT-CLASS-60-254	c 28	N73-24784 *
US-PATENT-CLASS-55-127	c 35	N79-17192 *	US-PATENT-CLASS-564-342	c 23	N89-12667 *	US-PATENT-CLASS-60-256	c 28	N73-24784 *
US-PATENT-CLASS-55-12	c 35	N84-17555 *	US-PATENT-CLASS-564-344	c 23	N89-12667 *	US-PATENT-CLASS-60-257	c 31	N70-41948 *
US-PATENT-CLASS-55-131	c 35	N84-17555 *	US-PATENT-CLASS-564-396	c 27	N87-22847 *	US-PATENT-CLASS-60-258	c 15	N70-22192 *
US-PATENT-CLASS-55-138	c 35	N84-17555 *	US-PATENT-CLASS-564-396	c 23	N89-12667 *	US-PATENT-CLASS-60-258	c 28	N71-22983 *
US-PATENT-CLASS-55-139	c 35	N84-17555 *	US-PATENT-CLASS-564-430	c 27	N87-22847 *	US-PATENT-CLASS-60-258	c 28	N71-28849 *
US-PATENT-CLASS-55-145	c 35	N84-17555 *	US-PATENT-CLASS-564-430	c 23	N89-12667 *	US-PATENT-CLASS-60-258	c 28	N72-17843 *
US-PATENT-CLASS-55-15-8	c 52	N79-14749 *	US-PATENT-CLASS-568-14	c 27	N86-32568 *	US-PATENT-CLASS-60-258	c 15	N72-25455 *
US-PATENT-CLASS-55-155	c 35	N79-17192 *	US-PATENT-CLASS-568-2	c 27	N82-18389 *	US-PATENT-CLASS-60-258	c 20	N74-13502 *
US-PATENT-CLASS-55-158	c 18	N71-20742 *	US-PATENT-CLASS-568-445	c 23	N82-16174 *	US-PATENT-CLASS-60-258	c 20	N87-14420 *
US-PATENT-CLASS-55-158	c 44	N77-22607 *	US-PATENT-CLASS-568-497	c 23	N82-16174 *	US-PATENT-CLASS-60-259	c 28	N70-41275 *
US-PATENT-CLASS-55-158	c 25	N82-21269 *	US-PATENT-CLASS-568-4	c 27	N82-18389 *	US-PATENT-CLASS-60-259	c 20	N74-13502 *
US-PATENT-CLASS-55-159	c 34	N74-30608 *	US-PATENT-CLASS-568-4	c 27	N84-22750 *	US-PATENT-CLASS-60-259	c 34	N77-30399 *
US-PATENT-CLASS-55-159	c 37	N79-21345 *	US-PATENT-CLASS-568-5	c 27	N82-18389 *	US-PATENT-CLASS-60-259	c 20	N80-14188 *
US-PATENT-CLASS-55-15	c 71	N83-35781 *	US-PATENT-CLASS-568-5	c 27	N84-22750 *	US-PATENT-CLASS-60-259	c 05	N81-26114 *
US-PATENT-CLASS-55-15	c 71	N85-22104 *	US-PATENT-CLASS-568-852	c 27	N80-32514 *	US-PATENT-CLASS-60-259	c 20	N90-19298 *
US-PATENT-CLASS-55-160	c 15	N71-15968 *	US-PATENT-CLASS-568-861	c 27	N80-32514 *	US-PATENT-CLASS-60-25	c 15	N73-24513 *
US-PATENT-CLASS-55-16	c 06	N72-31140 *	US-PATENT-CLASS-57-906	c 37	N82-18601 *	US-PATENT-CLASS-60-25	c 37	N74-21060 *
US-PATENT-CLASS-55-179	c 14	N71-17588 *	US-PATENT-CLASS-570-123	c 25	N82-24312 *	US-PATENT-CLASS-60-260	c 28	N70-41992 *
US-PATENT-CLASS-55-179	c 54	N77-32722 *	US-PATENT-CLASS-570-129	c 25	N82-24312 *	US-PATENT-CLASS-60-260	c 28	N72-18766 *
US-PATENT-CLASS-55-194	c 35	N83-29652 *	US-PATENT-CLASS-58-24	c 10	N71-26326 *	US-PATENT-CLASS-60-260	c 20	N90-19298 *
US-PATENT-CLASS-55-197	c 23	N77-17161 *	US-PATENT-CLASS-585-24	c 27	N86-21675 *	US-PATENT-CLASS-60-261	c 37	N78-17384 *
US-PATENT-CLASS-55-199	c 34	N74-30608 *	US-PATENT-CLASS-60.39.08	c 37	N79-11403 *	US-PATENT-CLASS-60-262	c 37	N78-17384 *
US-PATENT-CLASS-55-202	c 35	N83-29652 *	US-PATENT-CLASS-60-108	c 33	N71-16104 *	US-PATENT-CLASS-60-262	c 07	N78-18067 *
US-PATENT-CLASS-55-204	c 15	N71-23023 *	US-PATENT-CLASS-60-1	c 15	N72-33477 *	US-PATENT-CLASS-60-262	c 07	N83-33884 *
US-PATENT-CLASS-55-204	c 44	N83-10501 *	US-PATENT-CLASS-60-1	c 15	N73-13467 *	US-PATENT-CLASS-60-263	c 28	N71-24321 *
US-PATENT-CLASS-55-208	c 14	N71-18483 *	US-PATENT-CLASS-60-200A	c 33	N72-25911 *	US-PATENT-CLASS-60-263	c 07	N77-28198 *
US-PATENT-CLASS-55-241	c 35	N79-17192 *	US-PATENT-CLASS-60-200A	c 33	N73-25952 *	US-PATENT-CLASS-60-264	c 07	N80-32392 *
US-PATENT-CLASS-55-242	c 35	N79-17192 *	US-PATENT-CLASS-60-200A	c 27	N78-17206 *	US-PATENT-CLASS-60-264	c 20	N89-25279 *
US-PATENT-CLASS-55-255	c 35	N86-29174 *	US-PATENT-CLASS-60-200R	c 20	N82-18314 *	US-PATENT-CLASS-60-265	c 28	N71-20942 *
US-PATENT-CLASS-55-259	c 35	N86-29174 *	US-PATENT-CLASS-60-200	c 28	N71-14044 *	US-PATENT-CLASS-60-265	c 33	N72-25911 *
US-PATENT-CLASS-55-26-9	c 35	N78-12390 *	US-PATENT-CLASS-60-202	c 28	N70-41922 *	US-PATENT-CLASS-60-265	c 33	N73-25952 *
US-PATENT-CLASS-55-261	c 35	N76-18401 *	US-PATENT-CLASS-60-202	c 28	N71-10574 *	US-PATENT-CLASS-60-265	c 20	N76-14191 *
US-PATENT-CLASS-55-269	c 54	N77-32722 *	US-PATENT-CLASS-60-202	c 25	N71-21694 *	US-PATENT-CLASS-60-266	c 33	N71-28852 *
US-PATENT-CLASS-55-270	c 35	N84-17555 *	US-PATENT-CLASS-60-202	c 28	N71-21822 *	US-PATENT-CLASS-60-266	c 28	N72-23810 *
US-PATENT-CLASS-55-277	c 71	N83-35781 *	US-PATENT-CLASS-60-202	c 28	N71-23081 *	US-PATENT-CLASS-60-267	c 33	N71-29053 *
US-PATENT-CLASS-55-277	c 71	N85-22104 *	US-PATENT-CLASS-60-202	c 28	N71-23293 *	US-PATENT-CLASS-60-267	c 33	N72-25911 *
US-PATENT-CLASS-55-283	c 35	N84-17555 *	US-PATENT-CLASS-60-202	c 28	N71-25213 *	US-PATENT-CLASS-60-267	c 33	N73-25952 *
US-PATENT-CLASS-55-291	c 35	N84-17555 *	US-PATENT-CLASS-60-202	c 28	N71-26173 *	US-PATENT-CLASS-60-267	c 28	N73-32606 *
US-PATENT-CLASS-55-2	c 25	N78-25148 *	US-PATENT-CLASS-60-202	c 28	N71-26642 *	US-PATENT-CLASS-60-267	c 20	N76-14191 *
US-PATENT-CLASS-55-2	c 28	N81-14103 *	US-PATENT-CLASS-60-202	c 28	N71-26781 *	US-PATENT-CLASS-60-267	c 34	N79-13288 *
US-PATENT-CLASS-55-2	c 35	N84-17555 *	US-PATENT-CLASS-60-202	c 28	N72-11709 *	US-PATENT-CLASS-60-267	c 34	N79-13289 *
US-PATENT-CLASS-55-306	c 28	N70-34788 *	US-PATENT-CLASS-60-202	c 28	N72-22770 *	US-PATENT-CLASS-60-267	c 34	N80-24573 *
US-PATENT-CLASS-55-35	c 05	N70-41297 *	US-PATENT-CLASS-60-202	c 28	N72-22771 *	US-PATENT-CLASS-60-267	c 44	N81-24519 *
US-PATENT-CLASS-55-360	c 35	N79-17192 *	US-PATENT-CLASS-60-202	c 28	N73-24783 *	US-PATENT-CLASS-60-267	c 05	N81-26114 *
US-PATENT-CLASS-55-386	c 35	N75-26334 *	US-PATENT-CLASS-60-202	c 25	N73-25760 *	US-PATENT-CLASS-60-269	c 07	N83-33884 *
US-PATENT-CLASS-55-38	c 71	N83-35781 *	US-PATENT-CLASS-60-202	c 28	N73-27699 *	US-PATENT-CLASS-60-26	c 21	N72-31637 *
US-PATENT-CLASS-55-3	c 35	N78-12390 *	US-PATENT-CLASS-60-202	c 20	N77-10148 *	US-PATENT-CLASS-60-26	c 03	N73-20040 *
US-PATENT-CLASS-55-400	c 11	N71-10777 *	US-PATENT-CLASS-60-202	c 20	N77-20162 *	US-PATENT-CLASS-60-271	c 28	N72-11708 *
US-PATENT-CLASS-55-407	c 35	N79-17192 *	US-PATENT-CLASS-60-202	c 20	N85-21256 *	US-PATENT-CLASS-60-271	c 28	N72-23810 *
US-PATENT-CLASS-55-408	c 15	N70-40062 *	US-PATENT-CLASS-60-202	c 20	N89-25279 *	US-PATENT-CLASS-60-271	c 07	N78-17055 *
US-PATENT-CLASS-55-418	c 15	N71-22721 *	US-PATENT-CLASS-60-203.1	c 20	N86-26368 *	US-PATENT-CLASS-60-271	c 37	N78-17384 *
US-PATENT-CLASS-55-43	c 34	N74-30608 *	US-PATENT-CLASS-60-203.1	c 20	N87-16875 *	US-PATENT-CLASS-60-271	c 07	N83-33884 *
US-PATENT-CLASS-55-446	c 15	N72-22489 *	US-PATENT-CLASS-60-203.1	c 09	N88-28939 *	US-PATENT-CLASS-60-275	c 35	N84-17555 *
US-PATENT-CLASS-55-464	c 15	N72-22489 *	US-PATENT-CLASS-60-203	c 20	N80-14188 *	US-PATENT-CLASS-60-291	c 31	N73-13898 *
US-PATENT-CLASS-55-466	c 35	N84-17555 *	US-PATENT-CLASS-60-204	c 07	N78-17055 *	US-PATENT-CLASS-60-300	c 28	N80-10374 *
US-PATENT-CLASS-55-493	c 14	N72-23457 *	US-PATENT-CLASS-60-204	c 07	N78-18067 *	US-PATENT-CLASS-60-303	c 35	N84-17555 *
US-PATENT-CLASS-55-498	c 14	N72-23457 *	US-PATENT-CLASS-60-204	c 44	N81-24519 *	US-PATENT-CLASS-60-303	c 37	N84-33808 *
US-PATENT-CLASS-55-502	c 14	N72-23457 *	US-PATENT-CLASS-60-204	c 20	N90-19298 *	US-PATENT-CLASS-60-311	c 35	N84-17555 *
US-PATENT-CLASS-55-510	c 25	N74-12813 *	US-PATENT-CLASS-60-211	c 28	N73-13773 *	US-PATENT-CLASS-60-316	c 34	N76-18364 *
US-PATENT-CLASS-55-518	c 25	N74-12813 *	US-PATENT-CLASS-60-214	c 15	N74-27360 *	US-PATENT-CLASS-60-35.3	c 28	N70-33265 *
US-PATENT-CLASS-55-521	c 14	N72-23457 *	US-PATENT-CLASS-60-215	c 06	N73-30097 *	US-PATENT-CLASS-60-35.3	c 28	N70-40367 *
US-PATENT-CLASS-55-521	c 35	N86-29174 *	US-PATENT-CLASS-60-215	c 15	N74-27360 *	US-PATENT-CLASS-60-35.54	c 28	N70-34294 *
US-PATENT-CLASS-55-523	c 34	N76-27515 *	US-PATENT-CLASS-60-217	c 12	N71-17631 *	US-PATENT-CLASS-60-35.54	c 28	N70-38645 *
US-PATENT-CLASS-55-526	c 34	N76-27515 *	US-PATENT-CLASS-60-225	c 28	N71-10780 *	US-PATENT-CLASS-60-35.54	c 28	N71-29153 *
US-PATENT-CLASS-55-528	c 35	N86-29174 *	US-PATENT-CLASS-60-226A	c 07	N77-17059 *	US-PATENT-CLASS-60-35.55	c 28	N70-34162 *
US-PATENT-CLASS-55-52	c 71	N83-35781 *	US-PATENT-CLASS-60-226A	c 07	N79-14096 *	US-PATENT-CLASS-60-35.55	c 28	N70-38711 *
US-PATENT-CLASS-55-55	c 06	N72-31140 *	US-PATENT-CLASS-60-226A	c 07	N79-14097 *	US-PATENT-CLASS-60-35.55	c 21	N71-15582 *
US-PATENT-CLASS-55-56	c 25	N80-23383 *	US-PATENT-CLASS-60-226R	c 07	N82-26293 *	US-PATENT-CLASS-60-35.55	c 15	N71-28951 *
US-PATENT-CLASS-55-67	c 23	N77-17161 *	US-PATENT-CLASS-60-226R	c 07	N78-18066 *	US-PATENT-CLASS-60-35.5	c 28	N70-33356 *
US-PATENT-CLASS-55-67	c 25	N80-23383 *	US-PATENT-CLASS-60-226R	c 07	N77-14025 *	US-PATENT-CLASS-60-35.5	c 28	N70-34175 *
US-PATENT-CLASS-55-68	c 25	N80-23383 *	US-PATENT-CLASS-60-226R	c 07	N77-28118 *	US-PATENT-CLASS-60-35.5	c 28	N70-36802 *
US-PATENT-CLASS-55-6	c 35	N84-17555 *	US-PATENT-CLASS-60-226R	c 07	N78-17055 *	US-PATENT-CLASS-60-35.5	c 21	N70-36938 *
US-PATENT-CLASS-55-72	c 25	N80-23383 *	US-PATENT-CLASS-60-226R	c 07	N78-17056 *	US-PATENT-CLASS-60-35.5	c 25	N70-36946 *
US-PATENT-CLASS-55-73	c 45	N79-12584 *	US-PATENT-CLASS-60-226R	c 07	N78-25089 *	US-PATENT-CLASS-60-35.5	c 28	N70-37245 *
US-PATENT-CLASS-55-74	c 23	N77-17161 *	US-PATENT-CLASS-60-226R	c 07	N79-14096 *	US-PATENT-CLASS-60-35.5	c 28	N70-37980 *
US-PATENT-CLASS-55-75	c 15	N71-26185 *	US-PATENT-CLASS-60-226R	c 07	N81-19116 *	US-PATENT-CLASS-60-35.5	c 28	N71-14043 *
US-PATENT-CLASS-55-96	c 35	N84-17555 *	US-PATENT-CLASS-60-228	c 07	N77-17059 *	US-PATENT-CLASS-60-35.5	c 28	N71-15661 *
US-PATENT-CLASS-55-410	c 25	N85-21280 *	US-PATENT-CLASS-60-230	c 07	N78-27121 *	US-PATENT-CLASS-60-35.6	c 28	N71-15659 *
US-PATENT-CLASS-55-436	c 27	N86-21675 *	US-PATENT-CLASS-60-236	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-33284 *
US-PATENT-CLASS-558-145	c 23	N87-28605 *	US-PATENT-CLASS-60-238	c 07	N81-19116 *	US-PATENT-CLASS-60-35.6	c 28	N70-33331 *

US-PATENT-CLASS-60-35.6	c 28	N70-33374 *	US-PATENT-CLASS-60-527	c 35	N88-29151 *	US-PATENT-CLASS-62-3	c 34	N78-17335 *
US-PATENT-CLASS-60-35.6	c 28	N70-33375 *	US-PATENT-CLASS-60-528	c 37	N86-19604 *	US-PATENT-CLASS-62-3	c 34	N83-29625 *
US-PATENT-CLASS-60-35.6	c 28	N70-34860 *	US-PATENT-CLASS-60-530	c 20	N75-24837 *	US-PATENT-CLASS-62-3	c 31	N85-29082 *
US-PATENT-CLASS-60-35.6	c 28	N70-35381 *	US-PATENT-CLASS-60-53	c 37	N77-22479 *	US-PATENT-CLASS-62-40	c 15	N71-24044 *
US-PATENT-CLASS-60-35.6	c 27	N70-35534 *	US-PATENT-CLASS-60-54.5	c 15	N71-10658 *	US-PATENT-CLASS-62-40	c 28	N81-14103 *
US-PATENT-CLASS-60-35.6	c 15	N70-36535 *	US-PATENT-CLASS-60-560	c 35	N78-10428 *	US-PATENT-CLASS-62-45	c 15	N70-33323 *
US-PATENT-CLASS-60-35.6	c 28	N70-36806 *	US-PATENT-CLASS-60-572	c 44	N79-18443 *	US-PATENT-CLASS-62-45	c 31	N70-41871 *
US-PATENT-CLASS-60-35.6	c 28	N70-36910 *	US-PATENT-CLASS-60-574	c 35	N78-10428 *	US-PATENT-CLASS-62-45	c 33	N71-25351 *
US-PATENT-CLASS-60-35.6	c 28	N70-38249 *	US-PATENT-CLASS-60-606	c 28	N80-10374 *	US-PATENT-CLASS-62-45	c 33	N71-28892 *
US-PATENT-CLASS-60-35.6	c 28	N70-38504 *	US-PATENT-CLASS-60-606	c 37	N84-33808 *	US-PATENT-CLASS-62-45	c 15	N73-12486 *
US-PATENT-CLASS-60-35.6	c 28	N70-38505 *	US-PATENT-CLASS-60-632	c 20	N80-18097 *	US-PATENT-CLASS-62-45	c 35	N74-15093 *
US-PATENT-CLASS-60-35.6	c 28	N70-38710 *	US-PATENT-CLASS-60-634	c 37	N87-23983 *	US-PATENT-CLASS-62-45	c 31	N89-29578 *
US-PATENT-CLASS-60-35.6	c 28	N70-39899 *	US-PATENT-CLASS-60-638	c 37	N87-23983 *	US-PATENT-CLASS-62-467R	c 34	N84-22903 *
US-PATENT-CLASS-60-35.6	c 33	N71-15623 *	US-PATENT-CLASS-60-641.12	c 44	N84-23018 *	US-PATENT-CLASS-62-467	c 33	N70-37979 *
US-PATENT-CLASS-60-35.6	c 27	N71-15634 *	US-PATENT-CLASS-60-641.14	c 44	N82-24640 *	US-PATENT-CLASS-62-467	c 33	N71-17897 *
US-PATENT-CLASS-60-35.6	c 31	N71-15637 *	US-PATENT-CLASS-60-641	c 44	N75-32581 *	US-PATENT-CLASS-62-467	c 05	N72-11084 *
US-PATENT-CLASS-60-35.6	c 31	N71-15647 *	US-PATENT-CLASS-60-641	c 44	N77-32582 *	US-PATENT-CLASS-62-467	c 33	N72-25911 *
US-PATENT-CLASS-60-35.6	c 28	N71-15660 *	US-PATENT-CLASS-60-641	c 44	N78-17460 *	US-PATENT-CLASS-62-467	c 33	N73-25952 *
US-PATENT-CLASS-60-35.6	c 14	N71-27186 *	US-PATENT-CLASS-60-641	c 44	N78-32542 *	US-PATENT-CLASS-62-467	c 20	N75-24837 *
US-PATENT-CLASS-60-36	c 15	N72-33477 *	US-PATENT-CLASS-60-641	c 44	N79-18443 *	US-PATENT-CLASS-62-467	c 31	N88-14223 *
US-PATENT-CLASS-60-37	c 15	N73-13467 *	US-PATENT-CLASS-60-641	c 44	N81-17518 *	US-PATENT-CLASS-62-467	c 31	N89-12785 *
US-PATENT-CLASS-60-39.02	c 07	N86-20389 *	US-PATENT-CLASS-60-645	c 34	N79-20335 *	US-PATENT-CLASS-62-467	c 31	N89-14351 *
US-PATENT-CLASS-60-39.03	c 07	N77-23106 *	US-PATENT-CLASS-60-649	c 34	N79-20335 *	US-PATENT-CLASS-62-475	c 23	N72-25619 *
US-PATENT-CLASS-60-39.03	c 07	N80-18039 *	US-PATENT-CLASS-60-659	c 44	N79-20335 *	US-PATENT-CLASS-62-476	c 44	N82-26776 *
US-PATENT-CLASS-60-39.06	c 07	N80-26298 *	US-PATENT-CLASS-60-659	c 44	N76-31667 *	US-PATENT-CLASS-62-47	c 28	N81-14103 *
US-PATENT-CLASS-60-39.06	c 07	N81-29129 *	US-PATENT-CLASS-60-671	c 44	N78-32542 *	US-PATENT-CLASS-62-48	c 28	N78-24365 *
US-PATENT-CLASS-60-39.07	c 44	N78-32539 *	US-PATENT-CLASS-60-698	c 44	N84-23018 *	US-PATENT-CLASS-62-48	c 31	N83-31897 *
US-PATENT-CLASS-60-39.07	c 07	N82-32366 *	US-PATENT-CLASS-60-716	c 44	N84-23018 *	US-PATENT-CLASS-62-48	c 31	N87-21159 *
US-PATENT-CLASS-60-39.07	c 07	N83-36029 *	US-PATENT-CLASS-60-721	c 71	N79-20827 *	US-PATENT-CLASS-62-48	c 31	N88-14223 *
US-PATENT-CLASS-60-39.07	c 07	N86-20389 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *	US-PATENT-CLASS-62-48	c 31	N89-29578 *
US-PATENT-CLASS-60-39.14	c 44	N78-32539 *	US-PATENT-CLASS-60-721	c 71	N83-32515 *	US-PATENT-CLASS-62-49	c 31	N76-14284 *
US-PATENT-CLASS-60-39.14	c 07	N79-10057 *	US-PATENT-CLASS-60-721	c 71	N84-23233 *	US-PATENT-CLASS-62-4	c 44	N77-32581 *
US-PATENT-CLASS-60-39.23	c 20	N76-14190 *	US-PATENT-CLASS-60-726	c 07	N81-29129 *	US-PATENT-CLASS-62-4	c 44	N78-17460 *
US-PATENT-CLASS-60-39.23	c 07	N85-35195 *	US-PATENT-CLASS-60-726	c 07	N82-32366 *	US-PATENT-CLASS-62-50	c 15	N70-34247 *
US-PATENT-CLASS-60-39.24	c 07	N81-19115 *	US-PATENT-CLASS-60-730	c 05	N81-26114 *	US-PATENT-CLASS-62-50	c 35	N78-12390 *
US-PATENT-CLASS-60-39.27	c 07	N80-18039 *	US-PATENT-CLASS-60-730	c 37	N84-22958 *	US-PATENT-CLASS-62-514 R	c 35	N83-32026 *
US-PATENT-CLASS-60-39.28R	c 28	N73-19793 *	US-PATENT-CLASS-60-730	c 25	N90-11824 *	US-PATENT-CLASS-62-514-JT	c 31	N89-14351 *
US-PATENT-CLASS-60-39.28R	c 07	N77-23106 *	US-PATENT-CLASS-60-732	c 25	N90-11824 *	US-PATENT-CLASS-62-514-R	c 31	N87-21159 *
US-PATENT-CLASS-60-39.28R	c 37	N78-10467 *	US-PATENT-CLASS-60-733	c 07	N80-26298 *	US-PATENT-CLASS-62-514-R	c 37	N87-23982 *
US-PATENT-CLASS-60-39.28R	c 37	N78-24545 *	US-PATENT-CLASS-60-736	c 37	N84-22958 *	US-PATENT-CLASS-62-514-R	c 31	N89-12785 *
US-PATENT-CLASS-60-39.28R	c 37	N79-11403 *	US-PATENT-CLASS-60-736	c 07	N86-20389 *	US-PATENT-CLASS-62-514JT	c 31	N77-10229 *
US-PATENT-CLASS-60-39.29	c 20	N76-14190 *	US-PATENT-CLASS-60-737	c 07	N81-29129 *	US-PATENT-CLASS-62-514R	c 35	N78-12390 *
US-PATENT-CLASS-60-39.29	c 35	N76-14431 *	US-PATENT-CLASS-60-746	c 07	N80-26298 *	US-PATENT-CLASS-62-514R	c 31	N78-17237 *
US-PATENT-CLASS-60-39.29	c 07	N82-32366 *	US-PATENT-CLASS-60-746	c 20	N87-14420 *	US-PATENT-CLASS-62-514R	c 31	N78-25256 *
US-PATENT-CLASS-60-39.29	c 07	N84-33410 *	US-PATENT-CLASS-60-748	c 07	N85-35195 *	US-PATENT-CLASS-62-514R	c 51	N79-10694 *
US-PATENT-CLASS-60-39.31	c 07	N78-18066 *	US-PATENT-CLASS-60-757	c 07	N84-24577 *	US-PATENT-CLASS-62-514R	c 31	N79-17029 *
US-PATENT-CLASS-60-39.31	c 07	N79-14096 *	US-PATENT-CLASS-60-836	c 24	N78-14096 *	US-PATENT-CLASS-62-514R	c 34	N79-20336 *
US-PATENT-CLASS-60-39.33	c 44	N78-32539 *	US-PATENT-CLASS-60-97	c 03	N71-12026 *	US-PATENT-CLASS-62-514R	c 35	N81-14287 *
US-PATENT-CLASS-60-39.36	c 28	N71-20330 *	US-PATENT-CLASS-60-114	c 52	N83-27577 *	US-PATENT-CLASS-62-514R	c 31	N83-31897 *
US-PATENT-CLASS-60-39.36	c 28	N71-28915 *	US-PATENT-CLASS-60-151	c 52	N83-27577 *	US-PATENT-CLASS-62-514R	c 34	N83-34221 *
US-PATENT-CLASS-60-39.46M	c 20	N82-18314 *	US-PATENT-CLASS-60-280	c 52	N81-27185 *	US-PATENT-CLASS-62-514R	c 31	N88-14223 *
US-PATENT-CLASS-60-39.465	c 20	N86-26368 *	US-PATENT-CLASS-60-368	c 54	N84-11758 *	US-PATENT-CLASS-62-514	c 23	N71-26654 *
US-PATENT-CLASS-60-39.46	c 27	N71-15635 *	US-PATENT-CLASS-60-378	c 54	N84-11758 *	US-PATENT-CLASS-62-51	c 15	N72-17453 *
US-PATENT-CLASS-60-39.46	c 15	N74-27360 *	US-PATENT-CLASS-60-396	c 54	N84-11758 *	US-PATENT-CLASS-62-55.5	c 11	N71-24964 *
US-PATENT-CLASS-60-39.47	c 27	N71-16392 *	US-PATENT-CLASS-60-4	c 52	N83-21785 *	US-PATENT-CLASS-62-55.5	c 15	N72-22484 *
US-PATENT-CLASS-60-39.48	c 28	N70-38199 *	US-PATENT-CLASS-61-83	c 18	N74-22136 *	US-PATENT-CLASS-62-55	c 15	N70-38020 *
US-PATENT-CLASS-60-39.48	c 28	N70-39931 *	US-PATENT-CLASS-62-DIG.1	c 34	N84-22903 *	US-PATENT-CLASS-62-55	c 34	N77-30399 *
US-PATENT-CLASS-60-39.48	c 27	N71-28929 *	US-PATENT-CLASS-62-DIG.5	c 05	N81-26114 *	US-PATENT-CLASS-62-56	c 05	N72-11084 *
US-PATENT-CLASS-60-39.51R	c 25	N78-10224 *	US-PATENT-CLASS-62-100	c 34	N77-19353 *	US-PATENT-CLASS-62-62	c 34	N83-34221 *
US-PATENT-CLASS-60-39.52	c 07	N78-25089 *	US-PATENT-CLASS-62-100	c 28	N78-24365 *	US-PATENT-CLASS-62-6	c 15	N69-23190 #
US-PATENT-CLASS-60-39.65	c 28	N71-28915 *	US-PATENT-CLASS-62-121	c 34	N77-19353 *	US-PATENT-CLASS-62-6	c 23	N71-15467 *
US-PATENT-CLASS-60-39.65	c 23	N73-30665 *	US-PATENT-CLASS-62-128	c 35	N84-28018 *	US-PATENT-CLASS-62-6	c 15	N71-23025 *
US-PATENT-CLASS-60-39.65	c 34	N78-27357 *	US-PATENT-CLASS-62-129	c 31	N76-14284 *	US-PATENT-CLASS-62-6	c 23	N72-25619 *
US-PATENT-CLASS-60-39.66	c 15	N70-36411 *	US-PATENT-CLASS-62-12	c 28	N81-14103 *	US-PATENT-CLASS-62-6	c 37	N76-29590 *
US-PATENT-CLASS-60-39.66	c 23	N73-30665 *	US-PATENT-CLASS-62-148	c 44	N82-26776 *	US-PATENT-CLASS-62-6	c 44	N76-29701 *
US-PATENT-CLASS-60-39.66	c 07	N77-23106 *	US-PATENT-CLASS-62-15	c 06	N70-34946 *	US-PATENT-CLASS-62-6	c 44	N83-28574 *
US-PATENT-CLASS-60-39.66	c 37	N78-10467 *	US-PATENT-CLASS-62-176	c 05	N73-26071 *	US-PATENT-CLASS-62-6	c 31	N85-21404 *
US-PATENT-CLASS-60-39.66	c 37	N79-11403 *	US-PATENT-CLASS-62-18	c 28	N81-14103 *	US-PATENT-CLASS-62-78	c 51	N79-10694 *
US-PATENT-CLASS-60-39.69R	c 34	N78-27357 *	US-PATENT-CLASS-62-207	c 05	N73-26071 *	US-PATENT-CLASS-62-7	c 15	N73-12486 *
US-PATENT-CLASS-60-39.72	c 23	N73-30665 *	US-PATENT-CLASS-62-209	c 05	N73-26071 *	US-PATENT-CLASS-62-80	c 23	N72-25619 *
US-PATENT-CLASS-60-39.74A	c 15	N72-25455 *	US-PATENT-CLASS-62-217	c 31	N77-10229 *	US-PATENT-CLASS-62-85	c 23	N72-25619 *
US-PATENT-CLASS-60-39.74R	c 23	N73-30665 *	US-PATENT-CLASS-62-235.1	c 44	N82-26776 *	US-PATENT-CLASS-62-89	c 05	N73-26071 *
US-PATENT-CLASS-60-39.74R	c 20	N76-14190 *	US-PATENT-CLASS-62-238.3	c 44	N82-26776 *	US-PATENT-CLASS-62-93	c 15	N69-21465 #
US-PATENT-CLASS-60-39.74	c 28	N70-33241 *	US-PATENT-CLASS-62-239	c 44	N82-26776 *	US-PATENT-CLASS-62-93	c 03	N72-28025 *
US-PATENT-CLASS-60-39.74	c 28	N72-17843 *	US-PATENT-CLASS-62-244	c 44	N82-26776 *	US-PATENT-CLASS-62-93	c 77	N75-20139 *
US-PATENT-CLASS-60-39.74	c 20	N79-21125 *	US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-64-18	c 15	N71-28467 *
US-PATENT-CLASS-60-39.82E	c 20	N78-24275 *	US-PATENT-CLASS-62-259	c 05	N73-20137 *	US-PATENT-CLASS-64-27	c 15	N71-28959 *
US-PATENT-CLASS-60-39.83	c 07	N84-33410 *	US-PATENT-CLASS-62-259	c 54	N78-32721 *	US-PATENT-CLASS-64-28	c 15	N69-27505 #
US-PATENT-CLASS-60-39.48	c 28	N72-11709 *	US-PATENT-CLASS-62-264	c 34	N84-22903 *	US-PATENT-CLASS-65-DIG.11	c 37	N74-21063 *
US-PATENT-CLASS-60-415	c 85	N87-21755 *	US-PATENT-CLASS-62-268	c 14	N71-20427 *	US-PATENT-CLASS-65-DIG.4	c 71	N78-10837 *
US-PATENT-CLASS-60-508	c 44	N79-18443 *	US-PATENT-CLASS-62-268	c 34	N79-20336 *	US-PATENT-CLASS-65-DIG.7	c 71	N78-10837 *
US-PATENT-CLASS-60-516	c 20	N75-24837 *	US-PATENT-CLASS-62-269	c 34	N77-19353 *	US-PATENT-CLASS-65-102	c 71	N78-10837 *
US-PATENT-CLASS-60-516	c 44	N82-24640 *	US-PATENT-CLASS-62-285	c 77	N75-20139 *	US-PATENT-CLASS-65-108	c 35	N77-24455 *
US-PATENT-CLASS-60-517	c 44	N76-29701 *	US-PATENT-CLASS-62-288	c 77	N75-20139 *	US-PATENT-CLASS-65-11.1	c 31	N86-21718 *
US-PATENT-CLASS-60-517	c 37	N81-25370 *	US-PATENT-CLASS-62-289	c 77	N75-20139 *	US-PATENT-CLASS-65-12	c 31	N86-21718 *
US-PATENT-CLASS-60-518	c 37	N81-14318 *	US-PATENT-CLASS-62-290	c 77	N75-20139 *	US-PATENT-CLASS-65-134	c 71	N83-35781 *
US-PATENT-CLASS-60-518	c 37	N81-17432 *	US-PATENT-CLASS-62-295	c 35	N83-32026 *	US-PATENT-CLASS-65-134	c 27	N87-21111 *
US-PATENT-CLASS-60-51	c 15	N71-27754 *	US-PATENT-CLASS-62-2	c 15	N71-15906 *	US-PATENT-CLASS-65-136	c 27	N87-21111 *
US-PATENT-CLASS-60-520	c 37	N80-31790 *	US-PATENT-CLASS-62-315	c 34	N77-19353 *	US-PATENT-CLASS-65-13	c 27	N87-21111 *
US-PATENT-CLASS-60-524	c 44	N81-17518 *	US-PATENT-CLASS-62-317	c 77	N75-20139 *	US-PATENT-CLASS-65-142	c 31	N81-33319 *
US-PATENT-CLASS-60-525	c 37	N81-25370 *	US-PATENT-CLASS-62-376	c 31	N78-17237 *	US-PATENT-CLASS-65-142	c 27	N82-28442 *
US-PATENT-CLASS-60-527	c 44	N74-33379 *	US-PATENT-CLASS-62-376	c 34	N79-20336 *	US-PATENT-CLASS-65-142	c 31	N83-31896 *
US-PATENT-CLASS-60-527	c 37	N77-12402 *	US-PATENT-CLASS-62-383	c 33	N82-24419 *	US-PATENT-CLASS-65-142	c 31	N83-35176 *
US-PATENT-CLASS-60-527	c 37	N77-19458 *	US-PATENT-CLASS-62-384	c 23	N71-24725 *	US-PATENT-CLASS-65-142	c 71	N84-28568 *
US-PATENT-CLASS-60-527	c 37	N78-31426 *	US-PATENT-CLASS-62-384	c 31	N87-21159 *	US-PATENT-CLASS-65-142	c 26	N86-32551 *
US-PATENT-CLASS-60-527	c 37	N86-19604 *	US-PATENT-CLASS-62-3	c 20	N75-24837 *	US-PATENT-CLASS-65-160	c 71	N84-28568 *

US-PATENT-CLASS-65-1	c 31	N86-21718 *	US-PATENT-CLASS-73-12	c 14	N71-23225 *	US-PATENT-CLASS-73-15.6	c 35	N76-24523 *
US-PATENT-CLASS-65-21.2	c 26	N86-32551 *	US-PATENT-CLASS-73-12	c 14	N71-26161 *	US-PATENT-CLASS-73-15.6	c 35	N77-22450 *
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US-PATENT-CLASS-73-28	c 35	N78-18390 *	US-PATENT-CLASS-73-432R	c 35	N77-19385 *	US-PATENT-CLASS-73-615	c 32	N87-14559 *
US-PATENT-CLASS-73-290-R	c 35	N88-29150 *	US-PATENT-CLASS-73-432R	c 35	N78-18390 *	US-PATENT-CLASS-73-61	c 14	N71-26199 *
US-PATENT-CLASS-73-290-V	c 35	N89-14407 *	US-PATENT-CLASS-73-432R	c 15	N84-16231 *	US-PATENT-CLASS-73-620	c 35	N84-22928 *
US-PATENT-CLASS-73-290B	c 14	N72-11363 *	US-PATENT-CLASS-73-432SD	c 11	N72-27262 *	US-PATENT-CLASS-73-626	c 52	N79-26771 *
US-PATENT-CLASS-73-290	c 14	N71-10500 *	US-PATENT-CLASS-73-432SD	c 11	N73-20267 *	US-PATENT-CLASS-73-629	c 33	N83-16626 *
US-PATENT-CLASS-73-290	c 14	N71-21007 *	US-PATENT-CLASS-73-432SD	c 35	N77-18417 *	US-PATENT-CLASS-73-630	c 39	N78-15512 *
US-PATENT-CLASS-73-295	c 23	N71-17802 *	US-PATENT-CLASS-73-432T	c 74	N84-11921 *	US-PATENT-CLASS-73-632	c 38	N79-14398 *
US-PATENT-CLASS-73-295	c 31	N76-14284 *	US-PATENT-CLASS-73-432	c 11	N70-34786 *	US-PATENT-CLASS-73-633	c 52	N79-14751 *
US-PATENT-CLASS-73-29	c 14	N71-17701 *	US-PATENT-CLASS-73-432	c 11	N70-36675 *	US-PATENT-CLASS-73-633	c 35	N84-22928 *
US-PATENT-CLASS-73-29	c 14	N71-20741 *	US-PATENT-CLASS-73-432	c 05	N70-42000 *	US-PATENT-CLASS-73-64	c 34	N83-31993 *
US-PATENT-CLASS-73-301	c 12	N71-26387 *	US-PATENT-CLASS-73-432	c 31	N71-16221 *	US-PATENT-CLASS-73-641	c 38	N79-14398 *
US-PATENT-CLASS-73-304-R	c 35	N88-29150 *	US-PATENT-CLASS-73-432	c 27	N71-16223 *	US-PATENT-CLASS-73-644	c 38	N79-14398 *
US-PATENT-CLASS-73-304-C	c 14	N71-29134 *	US-PATENT-CLASS-73-432	c 30	N71-17788 *	US-PATENT-CLASS-73-644	c 52	N79-14751 *
US-PATENT-CLASS-73-304	c 14	N72-22442 *	US-PATENT-CLASS-73-432	c 14	N71-23227 *	US-PATENT-CLASS-73-646	c 71	N78-14867 *
US-PATENT-CLASS-73-30	c 14	N70-41681 *	US-PATENT-CLASS-73-432	c 10	N71-26339 *	US-PATENT-CLASS-73-646	c 35	N84-12445 *
US-PATENT-CLASS-73-32R	c 76	N75-12810 *	US-PATENT-CLASS-73-432	c 11	N71-28629 *	US-PATENT-CLASS-73-647	c 32	N79-24203 *
US-PATENT-CLASS-73-32R	c 35	N84-28018 *	US-PATENT-CLASS-73-432	c 14	N71-30026 *	US-PATENT-CLASS-73-655	c 35	N80-14371 *
US-PATENT-CLASS-73-32	c 14	N70-41330 *	US-PATENT-CLASS-73-432	c 35	N74-21062 *	US-PATENT-CLASS-73-657	c 35	N85-30282 *
US-PATENT-CLASS-73-336.5	c 35	N78-25391 *	US-PATENT-CLASS-73-45.5	c 12	N71-17573 *	US-PATENT-CLASS-73-658	c 35	N84-12445 *
US-PATENT-CLASS-73-336.5	c 35	N85-29212 *	US-PATENT-CLASS-73-456	c 35	N78-24515 *	US-PATENT-CLASS-73-65	c 14	N71-22992 *
US-PATENT-CLASS-73-336.5	c 35	N87-22953 *	US-PATENT-CLASS-73-462	c 35	N87-14670 *	US-PATENT-CLASS-73-661	c 35	N80-14371 *
US-PATENT-CLASS-73-339	c 33	N73-27796 *	US-PATENT-CLASS-73-468	c 37	N84-28082 *	US-PATENT-CLASS-73-67.1	c 35	N75-12271 *
US-PATENT-CLASS-73-341	c 14	N71-15598 *	US-PATENT-CLASS-73-46	c 35	N75-19612 *	US-PATENT-CLASS-73-67.2	c 11	N69-21540 *
US-PATENT-CLASS-73-341	c 44	N82-16474 *	US-PATENT-CLASS-73-473	c 35	N87-14670 *	US-PATENT-CLASS-73-67.2	c 15	N71-18132 *
US-PATENT-CLASS-73-343R	c 52	N77-10780 *	US-PATENT-CLASS-73-477	c 35	N87-14670 *	US-PATENT-CLASS-73-67.2	c 14	N72-22440 *
US-PATENT-CLASS-73-343R	c 35	N80-18357 *	US-PATENT-CLASS-73-49.2	c 32	N71-24285 *	US-PATENT-CLASS-73-67.2	c 35	N78-17358 *
US-PATENT-CLASS-73-343	c 33	N71-16356 *	US-PATENT-CLASS-73-49.2	c 35	N75-15931 *	US-PATENT-CLASS-73-67.3	c 32	N73-26910 *
US-PATENT-CLASS-73-343	c 11	N71-21475 *	US-PATENT-CLASS-73-49.2	c 35	N75-19612 *	US-PATENT-CLASS-73-67.5R	c 38	N74-15395 *
US-PATENT-CLASS-73-355R	c 14	N72-24477 *	US-PATENT-CLASS-73-49.3	c 14	N71-26672 *	US-PATENT-CLASS-73-67.7	c 39	N77-28511 *
US-PATENT-CLASS-73-355R	c 35	N80-18359 *	US-PATENT-CLASS-73-49.8	c 14	N69-27503 *	US-PATENT-CLASS-73-67.8S	c 35	N74-10415 *
US-PATENT-CLASS-73-355	c 14	N71-27323 *	US-PATENT-CLASS-73-49.8	c 15	N71-29132 *	US-PATENT-CLASS-73-67.8S	c 38	N74-15130 *
US-PATENT-CLASS-73-355	c 14	N72-28437 *	US-PATENT-CLASS-73-490	c 04	N81-21047 *	US-PATENT-CLASS-73-67.9	c 52	N74-20726 *
US-PATENT-CLASS-73-356	c 35	N75-25122 *	US-PATENT-CLASS-73-492	c 14	N72-25411 *	US-PATENT-CLASS-73-683.31	c 35	N81-29407 *
US-PATENT-CLASS-73-35	c 33	N72-27959 *	US-PATENT-CLASS-73-493	c 17	N76-29347 *	US-PATENT-CLASS-73-684.52	c 35	N81-29407 *
US-PATENT-CLASS-73-361	c 35	N81-26431 *	US-PATENT-CLASS-73-497	c 14	N71-30265 *	US-PATENT-CLASS-73-69	c 71	N74-31148 *
US-PATENT-CLASS-73-362AR	c 35	N77-27368 *	US-PATENT-CLASS-73-497	c 35	N74-15094 *	US-PATENT-CLASS-73-70.2	c 14	N71-10616 *
US-PATENT-CLASS-73-37.5	c 35	N86-32698 *	US-PATENT-CLASS-73-4	c 14	N71-18481 *	US-PATENT-CLASS-73-705	c 36	N85-21639 *
US-PATENT-CLASS-73-379	c 05	N73-27941 *	US-PATENT-CLASS-73-4	c 14	N71-23036 *	US-PATENT-CLASS-73-708	c 34	N85-21568 *
US-PATENT-CLASS-73-379	c 05	N73-30078 *	US-PATENT-CLASS-73-4	c 14	N71-23755 *	US-PATENT-CLASS-73-71.2	c 14	N70-34794 *
US-PATENT-CLASS-73-379	c 35	N75-15932 *	US-PATENT-CLASS-73-4	c 14	N73-30390 *	US-PATENT-CLASS-73-71.3	c 35	N74-15146 *
US-PATENT-CLASS-73-379	c 39	N83-20280 *	US-PATENT-CLASS-73-502	c 35	N86-32695 *	US-PATENT-CLASS-73-71.4	c 32	N71-16428 *
US-PATENT-CLASS-73-382	c 10	N71-13537 *	US-PATENT-CLASS-73-504	c 04	N81-21047 *	US-PATENT-CLASS-73-71.4	c 32	N71-26681 *
US-PATENT-CLASS-73-382	c 14	N71-17587 *	US-PATENT-CLASS-73-505	c 23	N71-16098 *	US-PATENT-CLASS-73-71.5R	c 71	N74-31148 *
US-PATENT-CLASS-73-384	c 15	N70-37925 *	US-PATENT-CLASS-73-505	c 12	N75-24774 *	US-PATENT-CLASS-73-71.5U	c 38	N74-15395 *
US-PATENT-CLASS-73-388	c 35	N74-32878 *	US-PATENT-CLASS-73-505	c 71	N78-10837 *	US-PATENT-CLASS-73-71.6	c 14	N71-27185 *
US-PATENT-CLASS-73-389	c 12	N71-24692 *	US-PATENT-CLASS-73-505	c 71	N79-20827 *	US-PATENT-CLASS-73-71.6	c 14	N72-27412 *
US-PATENT-CLASS-73-38	c 18	N71-24934 *	US-PATENT-CLASS-73-505	c 71	N81-15767 *	US-PATENT-CLASS-73-71.6	c 14	N73-13416 *
US-PATENT-CLASS-73-398AR	c 52	N74-27566 *	US-PATENT-CLASS-73-505	c 71	N83-32515 *	US-PATENT-CLASS-73-71.6	c 14	N73-19421 *
US-PATENT-CLASS-73-398AR	c 52	N76-29896 *	US-PATENT-CLASS-73-505	c 71	N83-32516 *	US-PATENT-CLASS-73-71.6	c 35	N77-18417 *
US-PATENT-CLASS-73-398C	c 14	N72-22438 *	US-PATENT-CLASS-73-505	c 71	N83-36846 *	US-PATENT-CLASS-73-714	c 35	N79-14347 *
US-PATENT-CLASS-73-398C	c 33	N76-21390 *	US-PATENT-CLASS-73-505	c 71	N84-23233 *	US-PATENT-CLASS-73-714	c 34	N79-24285 *
US-PATENT-CLASS-73-398	c 14	N70-34816 *	US-PATENT-CLASS-73-505	c 71	N85-22105 *	US-PATENT-CLASS-73-714	c 35	N84-14491 *
US-PATENT-CLASS-73-398	c 14	N71-21072 *	US-PATENT-CLASS-73-505	c 71	N85-29693 *	US-PATENT-CLASS-73-721	c 35	N79-14347 *
US-PATENT-CLASS-73-398	c 09	N71-24597 *	US-PATENT-CLASS-73-505	c 35	N86-20752 *	US-PATENT-CLASS-73-721	c 35	N84-22934 *
US-PATENT-CLASS-73-398	c 14	N73-30394 *	US-PATENT-CLASS-73-505	c 26	N86-32551 *	US-PATENT-CLASS-73-724	c 32	N79-24203 *
US-PATENT-CLASS-73-399	c 37	N76-18454 *	US-PATENT-CLASS-73-505	c 71	N88-24241 *	US-PATENT-CLASS-73-724	c 52	N80-18691 *
US-PATENT-CLASS-73-3	c 34	N74-27730 *	US-PATENT-CLASS-73-505	c 71	N89-13236 *	US-PATENT-CLASS-73-724	c 33	N82-26572 *
US-PATENT-CLASS-73-3	c 34	N86-12547 *	US-PATENT-CLASS-73-505	c 35	N89-14422 *	US-PATENT-CLASS-73-753	c 35	N85-21597 *
US-PATENT-CLASS-73-4R	c 35	N74-13132 *	US-PATENT-CLASS-73-505	c 71	N90-12289 *	US-PATENT-CLASS-73-756	c 35	N78-24515 *
US-PATENT-CLASS-73-4R	c 35	N79-14347 *	US-PATENT-CLASS-73-510	c 18	N81-29152 *	US-PATENT-CLASS-73-756	c 35	N79-14347 *
US-PATENT-CLASS-73-4R	c 35	N80-18358 *	US-PATENT-CLASS-73-515	c 14	N72-25410 *	US-PATENT-CLASS-73-756	c 35	N84-22934 *
US-PATENT-CLASS-73-4V	c 35	N74-15092 *	US-PATENT-CLASS-73-517B	c 35	N74-15094 *	US-PATENT-CLASS-73-756	c 35	N87-28884 *
US-PATENT-CLASS-73-40.5A	c 35	N85-21597 *	US-PATENT-CLASS-73-517R	c 17	N76-29347 *	US-PATENT-CLASS-73-75	c 35	N85-34373 *
US-PATENT-CLASS-73-40.5	c 14	N71-10779 *	US-PATENT-CLASS-73-517	c 11	N70-38196 *	US-PATENT-CLASS-73-761	c 33	N83-16626 *
US-PATENT-CLASS-73-40.7	c 15	N71-24910 *	US-PATENT-CLASS-73-517	c 14	N70-41682 *	US-PATENT-CLASS-73-76	c 06	N72-17095 *
US-PATENT-CLASS-73-40.7	c 14	N71-28992 *	US-PATENT-CLASS-73-517	c 14	N71-15969 *	US-PATENT-CLASS-73-770	c 39	N79-22537 *
US-PATENT-CLASS-73-40.7	c 35	N74-32879 *	US-PATENT-CLASS-73-521	c 14	N72-25410 *	US-PATENT-CLASS-73-781	c 52	N80-27072 *
US-PATENT-CLASS-73-40.7	c 35	N85-29213 *	US-PATENT-CLASS-73-521	c 35	N86-32695 *	US-PATENT-CLASS-73-794	c 35	N88-23967 *
US-PATENT-CLASS-73-400	c 14	N71-23093 *	US-PATENT-CLASS-73-557	c 35	N75-19614 *	US-PATENT-CLASS-73-79	c 14	N71-26161 *
US-PATENT-CLASS-73-400	c 14	N71-24232 *	US-PATENT-CLASS-73-557	c 07	N76-27232 *	US-PATENT-CLASS-73-7	c 25	N86-19413 *

US-PATENT-CLASS-73-801	c 35	N88-23966 *	US-PATENT-CLASS-73-9	c 15	N84-16231 *	US-PATENT-CLASS-75-128T	c 26	N78-18182 *
US-PATENT-CLASS-73-809	c 39	N87-25601 *	US-PATENT-CLASS-74-100R	c 37	N78-31426 *	US-PATENT-CLASS-75-134D	c 76	N79-16678 *
US-PATENT-CLASS-73-810	c 39	N79-22537 *	US-PATENT-CLASS-74-100	c 15	N71-24045 *	US-PATENT-CLASS-75-135	c 18	N73-32437 *
US-PATENT-CLASS-73-810	c 39	N87-25601 *	US-PATENT-CLASS-74-105	c 09	N72-22195 *	US-PATENT-CLASS-75-135	c 24	N77-27187 *
US-PATENT-CLASS-73-810	c 35	N88-23967 *	US-PATENT-CLASS-74-110	c 44	N83-14693 *	US-PATENT-CLASS-75-135	c 26	N80-23419 *
US-PATENT-CLASS-73-818	c 35	N83-21312 *	US-PATENT-CLASS-74-126	c 15	N71-21529 *	US-PATENT-CLASS-75-138	c 26	N80-23419 *
US-PATENT-CLASS-73-818	c 39	N83-32081 *	US-PATENT-CLASS-74-18.1	c 37	N82-24493 *	US-PATENT-CLASS-75-139	c 24	N77-27187 *
US-PATENT-CLASS-73-81	c 14	N73-32321 *	US-PATENT-CLASS-74-18.2	c 11	N71-27036 *	US-PATENT-CLASS-75-142	c 17	N71-20743 *
US-PATENT-CLASS-73-822	c 39	N83-32081 *	US-PATENT-CLASS-74-18.2	c 37	N82-24493 *	US-PATENT-CLASS-75-170	c 17	N71-15644 *
US-PATENT-CLASS-73-827	c 39	N86-20841 *	US-PATENT-CLASS-74-217R	c 37	N74-23070 *	US-PATENT-CLASS-75-170	c 17	N71-16025 *
US-PATENT-CLASS-73-82	c 43	N79-25443 *	US-PATENT-CLASS-74-2	c 15	N71-24600 *	US-PATENT-CLASS-75-170	c 17	N71-23248 *
US-PATENT-CLASS-73-82	c 43	N80-14423 *	US-PATENT-CLASS-74-2	c 31	N73-14855 *	US-PATENT-CLASS-75-170	c 17	N72-22535 *
US-PATENT-CLASS-73-82	c 43	N80-23711 *	US-PATENT-CLASS-74-384	c 37	N76-15457 *	US-PATENT-CLASS-75-170	c 37	N77-19458 *
US-PATENT-CLASS-73-831	c 35	N85-34375 *	US-PATENT-CLASS-74-385	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 26	N77-20201 *
US-PATENT-CLASS-73-833	c 24	N84-27829 *	US-PATENT-CLASS-74-409	c 15	N71-21744 *	US-PATENT-CLASS-75-170	c 26	N77-32279 *
US-PATENT-CLASS-73-834	c 37	N88-14361 *	US-PATENT-CLASS-74-417	c 07	N78-17056 *	US-PATENT-CLASS-75-170	c 26	N77-32280 *
US-PATENT-CLASS-73-84	c 14	N71-22765 *	US-PATENT-CLASS-74-417	c 37	N81-14318 *	US-PATENT-CLASS-75-170	c 26	N78-18183 *
US-PATENT-CLASS-73-84	c 14	N73-19420 *	US-PATENT-CLASS-74-417	c 37	N81-17432 *	US-PATENT-CLASS-75-171	c 17	N70-33283 *
US-PATENT-CLASS-73-84	c 35	N77-27367 *	US-PATENT-CLASS-74-424.8-R	c 35	N87-21304 *	US-PATENT-CLASS-75-171	c 17	N70-36616 *
US-PATENT-CLASS-73-856	c 39	N83-32081 *	US-PATENT-CLASS-74-424.8B	c 37	N85-20338 *	US-PATENT-CLASS-75-171	c 17	N71-16026 *
US-PATENT-CLASS-73-856	c 24	N84-27829 *	US-PATENT-CLASS-74-424.8VA	c 37	N75-15050 *	US-PATENT-CLASS-75-171	c 17	N73-32415 *
US-PATENT-CLASS-73-856	c 35	N85-34375 *	US-PATENT-CLASS-74-424.8VA	c 37	N85-20338 *	US-PATENT-CLASS-75-172	c 17	N71-23365 *
US-PATENT-CLASS-73-856	c 09	N87-25334 *	US-PATENT-CLASS-74-424.8	c 15	N71-26635 *	US-PATENT-CLASS-75-173	c 26	N77-2126 *
US-PATENT-CLASS-73-85	c 14	N72-33377 *	US-PATENT-CLASS-74-425	c 37	N80-32716 *	US-PATENT-CLASS-75-173	c 26	N75-27127 *
US-PATENT-CLASS-73-860	c 39	N83-32081 *	US-PATENT-CLASS-74-436	c 37	N75-13266 *	US-PATENT-CLASS-75-178R	c 04	N76-20114 *
US-PATENT-CLASS-73-861.05	c 33	N83-31954 *	US-PATENT-CLASS-74-441	c 35	N87-21304 *	US-PATENT-CLASS-75-178R	c 26	N80-23419 *
US-PATENT-CLASS-73-861.07	c 34	N86-12547 *	US-PATENT-CLASS-74-458	c 35	N87-21304 *	US-PATENT-CLASS-75-20F	c 15	N72-11387 *
US-PATENT-CLASS-73-861.58	c 35	N86-25752 *	US-PATENT-CLASS-74-468	c 15	N71-24984 *	US-PATENT-CLASS-75-200	c 26	N74-10521 *
US-PATENT-CLASS-73-861.65	c 02	N80-28300 *	US-PATENT-CLASS-74-468	c 35	N87-21304 *	US-PATENT-CLASS-75-200	c 37	N74-13179 *
US-PATENT-CLASS-73-861.65	c 35	N89-14423 *	US-PATENT-CLASS-74-469	c 15	N72-21463 *	US-PATENT-CLASS-75-200	c 24	N75-13032 *
US-PATENT-CLASS-73-861.66	c 02	N80-28300 *	US-PATENT-CLASS-74-469	c 15	N72-28495 *	US-PATENT-CLASS-75-200	c 37	N75-26371 *
US-PATENT-CLASS-73-861.71	c 47	N84-28292 *	US-PATENT-CLASS-74-471XY	c 54	N75-27760 *	US-PATENT-CLASS-75-200	c 24	N80-33482 *
US-PATENT-CLASS-73-861	c 34	N81-26402 *	US-PATENT-CLASS-74-471	c 05	N70-41581 *	US-PATENT-CLASS-75-202	c 17	N71-15468 *
US-PATENT-CLASS-73-862.01	c 35	N86-19581 *	US-PATENT-CLASS-74-471	c 03	N70-42073 *	US-PATENT-CLASS-75-203	c 27	N79-14213 *
US-PATENT-CLASS-73-862.04	c 35	N86-32696 *	US-PATENT-CLASS-74-471	c 15	N71-20740 *	US-PATENT-CLASS-75-204	c 18	N71-22894 *
US-PATENT-CLASS-73-862.08	c 54	N82-26987 *	US-PATENT-CLASS-74-479	c 08	N82-24205 *	US-PATENT-CLASS-75-205	c 27	N79-14213 *
US-PATENT-CLASS-73-862.54	c 37	N83-36482 *	US-PATENT-CLASS-74-480R	c 05	N75-12930 *	US-PATENT-CLASS-75-206	c 15	N72-25448 *
US-PATENT-CLASS-73-862.54	c 35	N85-20294 *	US-PATENT-CLASS-74-480R	c 08	N82-24205 *	US-PATENT-CLASS-75-206	c 27	N79-14213 *
US-PATENT-CLASS-73-862.54	c 35	N86-19581 *	US-PATENT-CLASS-74-5.12	c 31	N71-26537 *	US-PATENT-CLASS-75-208R	c 37	N75-26371 *
US-PATENT-CLASS-73-862.61	c 35	N86-32696 *	US-PATENT-CLASS-74-5.22	c 21	N73-13644 *	US-PATENT-CLASS-75-208	c 18	N72-25539 *
US-PATENT-CLASS-73-862.61	c 35	N90-17117 *	US-PATENT-CLASS-74-5.34	c 04	N76-26175 *	US-PATENT-CLASS-75-211	c 18	N72-25539 *
US-PATENT-CLASS-73-862.65	c 35	N84-28015 *	US-PATENT-CLASS-74-5.34	c 06	N83-33882 *	US-PATENT-CLASS-75-212	c 37	N75-26371 *
US-PATENT-CLASS-73-863.11	c 35	N83-29650 *	US-PATENT-CLASS-74-5.47	c 21	N71-23289 *	US-PATENT-CLASS-75-212	c 27	N79-14213 *
US-PATENT-CLASS-73-863.11	c 37	N85-29286 *	US-PATENT-CLASS-74-5.5	c 35	N74-28097 *	US-PATENT-CLASS-75-213	c 15	N72-25448 *
US-PATENT-CLASS-73-863.21	c 35	N86-26595 *	US-PATENT-CLASS-74-5.5	c 37	N84-28082 *	US-PATENT-CLASS-75-213	c 37	N74-13179 *
US-PATENT-CLASS-73-863.31	c 45	N83-25217 *	US-PATENT-CLASS-74-5.6D	c 33	N85-29142 *	US-PATENT-CLASS-75-214	c 37	N74-13179 *
US-PATENT-CLASS-73-863.31	c 35	N86-26595 *	US-PATENT-CLASS-74-5.6	c 35	N74-15094 *	US-PATENT-CLASS-75-214	c 37	N75-26371 *
US-PATENT-CLASS-73-863.72	c 35	N86-26595 *	US-PATENT-CLASS-74-5.7	c 35	N74-18323 *	US-PATENT-CLASS-75-222	c 28	N70-38197 *
US-PATENT-CLASS-73-863.83	c 45	N83-25217 *	US-PATENT-CLASS-74-5.7	c 15	N76-14158 *	US-PATENT-CLASS-75-222	c 37	N75-26371 *
US-PATENT-CLASS-73-863.86	c 35	N85-29213 *	US-PATENT-CLASS-74-5F	c 15	N73-12488 *	US-PATENT-CLASS-75-222	c 24	N80-33482 *
US-PATENT-CLASS-73-864.34	c 35	N86-26595 *	US-PATENT-CLASS-74-501R	c 15	N72-22485 *	US-PATENT-CLASS-75-225	c 34	N76-27515 *
US-PATENT-CLASS-73-864.41	c 35	N84-28018 *	US-PATENT-CLASS-74-515E	c 54	N78-17676 *	US-PATENT-CLASS-75-226	c 18	N72-25539 *
US-PATENT-CLASS-73-864.52	c 35	N85-29213 *	US-PATENT-CLASS-74-519	c 03	N70-41954 *	US-PATENT-CLASS-75-226	c 26	N74-10521 *
US-PATENT-CLASS-73-864.63	c 45	N83-25217 *	US-PATENT-CLASS-74-519	c 05	N81-19087 *	US-PATENT-CLASS-75-226	c 37	N74-13179 *
US-PATENT-CLASS-73-864.81	c 37	N85-29286 *	US-PATENT-CLASS-74-572	c 07	N78-33101 *	US-PATENT-CLASS-75-226	c 27	N79-14213 *
US-PATENT-CLASS-73-86	c 14	N69-39975 *	US-PATENT-CLASS-74-572	c 37	N79-10422 *	US-PATENT-CLASS-75-229	c 27	N78-17206 *
US-PATENT-CLASS-73-86	c 33	N71-21586 *	US-PATENT-CLASS-74-572	c 44	N79-14527 *	US-PATENT-CLASS-75-239	c 27	N78-17206 *
US-PATENT-CLASS-73-86	c 33	N73-27796 *	US-PATENT-CLASS-74-572	c 24	N81-29163 *	US-PATENT-CLASS-75-241	c 27	N78-17206 *
US-PATENT-CLASS-73-86	c 34	N74-15652 *	US-PATENT-CLASS-74-572	c 35	N89-15379 *	US-PATENT-CLASS-75-25	c 28	N81-15119 *
US-PATENT-CLASS-73-88.5R	c 15	N72-17452 *	US-PATENT-CLASS-74-573R	c 37	N84-28082 *	US-PATENT-CLASS-75-63	c 15	N71-27184 *
US-PATENT-CLASS-73-88.5R	c 32	N73-26910 *	US-PATENT-CLASS-74-586	c 37	N79-14382 *	US-PATENT-CLASS-75-65R	c 24	N77-27187 *
US-PATENT-CLASS-73-88.5R	c 52	N74-27864 *	US-PATENT-CLASS-74-58	c 35	N84-22928 *	US-PATENT-CLASS-75-66	c 17	N71-26773 *
US-PATENT-CLASS-73-88.5R	c 35	N76-14430 *	US-PATENT-CLASS-74-594.6	c 37	N74-18127 *	US-PATENT-CLASS-75-66	c 06	N73-13129 *
US-PATENT-CLASS-73-88.5SD	c 33	N76-19338 *	US-PATENT-CLASS-74-594.7	c 37	N74-18127 *	US-PATENT-CLASS-75-66	c 17	N73-28573 *
US-PATENT-CLASS-73-88.5	c 14	N70-34705 *	US-PATENT-CLASS-74-63	c 15	N71-17692 *	US-PATENT-CLASS-77.5A	c 27	N81-15104 *
US-PATENT-CLASS-73-88.5	c 14	N70-34799 *	US-PATENT-CLASS-74-661	c 37	N80-32716 *	US-PATENT-CLASS-77.5CH	c 27	N81-15104 *
US-PATENT-CLASS-73-88.5	c 14	N71-17656 *	US-PATENT-CLASS-74-665B	c 37	N76-15457 *	US-PATENT-CLASS-78-1	c 15	N70-33330 *
US-PATENT-CLASS-73-88.5	c 14	N71-21091 *	US-PATENT-CLASS-74-665C	c 37	N80-32716 *	US-PATENT-CLASS-788-704	c 36	N79-18307 *
US-PATENT-CLASS-73-88.5	c 14	N71-23087 *	US-PATENT-CLASS-74-674	c 37	N79-20377 *	US-PATENT-CLASS-8.DIG.12	c 27	N80-26446 *
US-PATENT-CLASS-73-88.5	c 14	N71-24233 *	US-PATENT-CLASS-74-675	c 37	N74-27901 *	US-PATENT-CLASS-8.DIG.18	c 27	N80-26446 *
US-PATENT-CLASS-73-88.5	c 09	N72-22200 *	US-PATENT-CLASS-74-705	c 37	N79-20377 *	US-PATENT-CLASS-8.DIG.9	c 25	N86-25428 *
US-PATENT-CLASS-73-88.5	c 33	N75-31329 *	US-PATENT-CLASS-74-710	c 37	N74-27901 *	US-PATENT-CLASS-8.115.5	c 27	N80-26446 *
US-PATENT-CLASS-73-88.5	c 38	N76-28563 *	US-PATENT-CLASS-74-753	c 37	N84-28084 *	US-PATENT-CLASS-8.150	c 09	N82-29330 *
US-PATENT-CLASS-73-88A	c 32	N73-20740 *	US-PATENT-CLASS-74-758	c 37	N84-28084 *	US-PATENT-CLASS-8-3	c 51	N77-27677 *
US-PATENT-CLASS-73-88F	c 39	N78-15512 *	US-PATENT-CLASS-74-764	c 37	N79-20377 *	US-PATENT-CLASS-8-94.11	c 51	N77-27677 *
US-PATENT-CLASS-73-88R	c 35	N74-13129 *	US-PATENT-CLASS-74-800	c 37	N78-17385 *	US-PATENT-CLASS-8-94.12	c 18	N71-15545 *
US-PATENT-CLASS-73-88R	c 35	N77-22449 *	US-PATENT-CLASS-74-812	c 37	N84-28084 *	US-PATENT-CLASS-81-119	c 37	N79-14383 *
US-PATENT-CLASS-73-88R	c 39	N77-28511 *	US-PATENT-CLASS-74-81	c 37	N78-16369 *	US-PATENT-CLASS-81-177G	c 37	N85-21649 *
US-PATENT-CLASS-73-88	c 32	N71-17645 *	US-PATENT-CLASS-74-820	c 37	N75-13266 *	US-PATENT-CLASS-81-180B	c 37	N79-14383 *
US-PATENT-CLASS-73-90	c 32	N70-42003 *	US-PATENT-CLASS-74-83	c 37	N78-16369 *	US-PATENT-CLASS-81-3R	c 15	N71-29133 *
US-PATENT-CLASS-73-90	c 32	N71-25360 *	US-PATENT-CLASS-74-89.15	c 15	N71-26635 *	US-PATENT-CLASS-81-55	c 37	N83-36482 *
US-PATENT-CLASS-73-90	c 14	N73-20476 *	US-PATENT-CLASS-74-89.15	c 15	N72-21462 *	US-PATENT-CLASS-81-56	c 37	N76-20480 *
US-PATENT-CLASS-73-91	c 14	N73-20476 *	US-PATENT-CLASS-74-89.15	c 35	N87-21304 *	US-PATENT-CLASS-81-57.31	c 37	N76-20480 *
US-PATENT-CLASS-73-91	c 32	N73-26910 *	US-PATENT-CLASS-74-89.18	c 15	N71-23809 *	US-PATENT-CLASS-81-57.38	c 15	N73-30457 *
US-PATENT-CLASS-73-91	c 09	N74-19528 *	US-PATENT-CLASS-74-89	c 37	N81-33483 *	US-PATENT-CLASS-81-57.38	c 37	N83-36482 *
US-PATENT-CLASS-73-91	c 39	N78-10493 *	US-PATENT-CLASS-74-96	c 37	N77-22482 *	US-PATENT-CLASS-81-63.1	c 15	N71-17805 *
US-PATENT-CLASS-73-94	c 14	N73-32323 *	US-PATENT-CLASS-75-5B	c 17	N72-22530 *	US-PATENT-CLASS-81-9.5R	c 37	N79-10419 *
US-PATENT-CLASS-73-95	c 15	N71-24834 *	US-PATENT-CLASS-75-DIG.1	c 18	N72-25539 *	US-PATENT-CLASS-81-90B	c 37	N79-14383 *
US-PATENT-CLASS-73-95	c 14	N72-11364 *	US-PATENT-CLASS-75-DIG.1	c 37	N75-26371 *	US-PATENT-CLASS-82-1.2	c 37	N81-14319 *
US-PATENT-CLASS-73-95	c 35	N76-18400 *	US-PATENT-CLASS-75-0.5BB	c 15	N72-25448 *	US-PATENT-CLASS-82-1C	c 37	N81-14319 *
US-PATENT-CLASS-73-95	c 35	N77-22450 *	US-PATENT-CLASS-75-122.7	c 37	N77-19458 *	US-PATENT-CLASS-82-14	c 15	N71-22722 *
US-PATENT-CLASS-73-95	c 31	N79-11246 *	US-PATENT-CLASS-75-124	c 26	N78-18182 *	US-PATENT-CLASS-82-24R	c 14	N72-16283 *
US-PATENT-CLASS-73-97	c 14	N71-15600 *	US-PATENT-CLASS-75-124	c 26	N80-32484 *	US-PATENT-CLASS-82-36R	c 37	N81-14319 *
US-PATENT-CLASS-73-99	c 14	N71-10781 *	US-PATENT-CLASS-75-126D	c 26	N78-18182 *	US-PATENT-CLASS-82-90	c 37	N85-21650 *
US-PATENT-CLASS-73-9	c 14	N71-22995 *	US-PATENT-CLASS-75-126F	c 26	N78-18182 *	US-PATENT-CLASS-83-152	c 76	N80-18951 *
US-PATENT-CLASS-73-9	c 35	N76-31489 *	US-PATENT-CLASS-75-128G	c 26	N78-18182 *	US-PATENT-CLASS-83-451	c 37	N77-14478 *

US-PATENT-CLASS-83-452	c 39	N74-13131 *	US-PATENT-CLASS-92-94	c 32	N70-41370 *	US-PATENT-3,072,574	c 18	N70-39897 *
US-PATENT-CLASS-83-467R	c 37	N77-14478 *	US-PATENT-CLASS-92-98R	c 31	N85-21404 *	US-PATENT-3,076,065	c 09	N70-39915 *
US-PATENT-CLASS-83-467	c 15	N71-22798 *	US-PATENT-CLASS-93-1	c 15	N70-33180 *	US-PATENT-3,077,599	c 07	N70-40202 *
US-PATENT-CLASS-83-522	c 15	N72-27485 *	US-PATENT-CLASS-94.9N	c 27	N81-15104 *	US-PATENT-3,079,113	c 02	N70-38009 *
US-PATENT-CLASS-83-562	c 15	N72-27485 *	US-PATENT-CLASS-95-1.1	c 14	N72-18411 *	US-PATENT-3,080,711	c 28	N70-38711 *
US-PATENT-CLASS-83-563	c 15	N72-27485 *	US-PATENT-CLASS-95-1.1	c 14	N73-26431 *	US-PATENT-3,083,611	c 21	N70-35427 *
US-PATENT-CLASS-83-588	c 15	N72-27485 *	US-PATENT-CLASS-95-11.5R	c 14	N73-19419 *	US-PATENT-3,084,421	c 17	N70-38490 *
US-PATENT-CLASS-83-602	c 39	N74-13131 *	US-PATENT-CLASS-95-11.5	c 14	N73-32319 *	US-PATENT-3,085,165	c 09	N70-34819 *
US-PATENT-CLASS-83-664	c 37	N85-21650 *	US-PATENT-CLASS-95-11R	c 14	N73-19419 *	US-PATENT-3,087,692	c 02	N70-34178 *
US-PATENT-CLASS-83-676	c 37	N85-21650 *	US-PATENT-CLASS-95-11	c 14	N71-18465 *	US-PATENT-3,088,441	c 15	N70-35409 *
US-PATENT-CLASS-83-820	c 37	N80-29703 *	US-PATENT-CLASS-95-11	c 16	N71-33410 *	US-PATENT-3,090,212	c 33	N70-37979 *
US-PATENT-CLASS-83-870	c 76	N80-18951 *	US-PATENT-CLASS-95-11	c 14	N73-32319 *	US-PATENT-3,090,580	c 31	N70-37924 *
US-PATENT-CLASS-83-8	c 15	N72-27485 *	US-PATENT-CLASS-95-12.5	c 31	N72-25842 *	US-PATENT-3,093,000	c 15	N70-37925 *
US-PATENT-CLASS-83-917	c 39	N74-13131 *	US-PATENT-CLASS-95-12.5	c 14	N73-14427 *	US-PATENT-3,093,346	c 31	N70-37938 *
US-PATENT-CLASS-85-1	c 15	N72-22488 *	US-PATENT-CLASS-95-12	c 14	N73-33361 *	US-PATENT-3,098,630	c 02	N70-37939 *
US-PATENT-CLASS-85-33	c 15	N71-15922 *	US-PATENT-CLASS-95-18	c 14	N72-20380 *	US-PATENT-3,100,294	c 09	N70-38998 *
US-PATENT-CLASS-85-33	c 15	N71-21489 *	US-PATENT-CLASS-95-42	c 14	N73-32322 *	US-PATENT-3,100,990	c 14	N70-34813 *
US-PATENT-CLASS-85-3	c 15	N71-17653 *	US-PATENT-CLASS-95-44	c 14	N71-26474 *	US-PATENT-3,102,948	c 15	N70-34814 *
US-PATENT-CLASS-85-58	c 15	N72-11385 *	US-PATENT-CLASS-95-53EA	c 33	N74-20861 *	US-PATENT-3,104,079	c 31	N70-37986 *
US-PATENT-CLASS-85-7	c 15	N71-23254 *	US-PATENT-CLASS-95-53	c 15	N71-21080 *	US-PATENT-3,104,082	c 02	N70-38011 *
US-PATENT-CLASS-859R	c 27	N81-15104 *	US-PATENT-CLASS-95-58	c 14	N70-40273 *	US-PATENT-3,105,515	c 15	N70-38603 *
US-PATENT-CLASS-86-1R	c 28	N77-10213 *	US-PATENT-CLASS-95-59	c 14	N73-14427 *	US-PATENT-3,106,603	c 09	N70-38201 *
US-PATENT-CLASS-86-1R	c 20	N71-17143 *	US-PATENT-CLASS-95-89R	c 35	N74-15831 *	US-PATENT-3,108,171	c 33	N70-34812 *
US-PATENT-CLASS-86-1	c 28	N71-26779 *	US-PATENT-CLASS-96-27R	c 35	N79-10389 *	US-PATENT-3,110,318	c 12	N70-38997 *
US-PATENT-CLASS-86-20.2	c 28	N71-26779 *	US-PATENT-CLASS-96-36.2	c 06	N72-21094 *	US-PATENT-3,112,672	c 11	N70-38202 *
US-PATENT-CLASS-86-20R	c 20	N77-17143 *	US-PATENT-CLASS-96-36.2	c 15	N72-25452 *	US-PATENT-3,115,630	c 31	N70-37981 *
US-PATENT-CLASS-88-14	c 14	N70-34298 *	US-PATENT-CLASS-96-38.3	c 35	N74-26946 *	US-PATENT-3,118,100	c 03	N71-29129 *
US-PATENT-CLASS-88-14	c 14	N70-40003 *	US-PATENT-CLASS-96-49	c 14	N71-17574 *	US-PATENT-3,119,086	c 35	N79-33449 *
US-PATENT-CLASS-88-14	c 14	N70-41946 *	US-PATENT-CLASS-96-60R	c 35	N79-10389 *	US-PATENT-3,119,232	c 28	N70-37980 *
US-PATENT-CLASS-88-14	c 14	N70-41955 *	US-PATENT-CLASS-96-79	c 35	N74-26946 *	US-PATENT-3,120,101	c 28	N70-34860 *
US-PATENT-CLASS-88-14	c 09	N71-22999 *	US-PATENT-CLASS-96-87A	c 27	N78-14164 *	US-PATENT-3,120,361	c 31	N70-38010 *
US-PATENT-CLASS-88-16	c 14	N70-33254 *	US-PATENT-CLASS-96-90PC	c 14	N72-22443 *	US-PATENT-3,120,738	c 28	N70-38249 *
US-PATENT-CLASS-88-1	c 21	N70-35427 *	US-PATENT-CLASS-98-1.5	c 44	N78-32539 *	US-PATENT-3,121,309	c 28	N70-35381 *
US-PATENT-CLASS-88-1	c 21	N71-22880 *	US-PATENT-CLASS-98-1	c 54	N78-17679 *	US-PATENT-3,122,000	c 15	N70-38020 *
US-PATENT-CLASS-88-24	c 23	N71-21882 *	US-PATENT-CLASS-98-39	c 31	N74-27902 *	US-PATENT-3,122,098	c 28	N70-38181 *
US-PATENT-CLASS-89-1.14	c 37	N87-23983 *	US-PATENT-CLASS-99-80PS	c 05	N72-33096 *	US-PATENT-3,122,885	c 28	N70-38710 *
US-PATENT-CLASS-89-1.5G	c 08	N82-32373 *				US-PATENT-3,123,248	c 11	N70-38182 *
US-PATENT-CLASS-89-1.54	c 05	N87-14314 *	US-PATENT-DES-228,688	c 05	N74-10907 *	US-PATENT-3,123,418	c 37	N79-33467 *
US-PATENT-CLASS-89-1.57	c 37	N85-30334 *				US-PATENT-3,123,692	c 33	N79-33393 *
US-PATENT-CLASS-89-1.5	c 31	N71-15675 *	US-PATENT-RE-26,548	c 07	N71-12389 *	US-PATENT-3,127,157	c 15	N70-38225 *
US-PATENT-CLASS-89-1.5	c 15	N71-24600 *	US-PATENT-RE-28,921	c 52	N76-30793 *	US-PATENT-3,128,389	c 09	N70-38604 *
US-PATENT-CLASS-89-1.7	c 11	N70-38202 *				US-PATENT-3,128,845	c 15	N70-38601 *
US-PATENT-CLASS-89-1.7	c 30	N70-40353 *	US-PATENT-2,837,706	c 15	N71-28952 *	US-PATENT-3,130,940	c 33	N70-33344 *
US-PATENT-CLASS-89-1.7	c 03	N71-12258 *	US-PATENT-2,898,889	c 02	N71-29128 *	US-PATENT-3,131,040	c 37	N79-21345 *
US-PATENT-CLASS-89-1.7	c 03	N71-12259 *	US-PATENT-2,903,307	c 15	N71-29136 *	US-PATENT-3,132,342	c 07	N70-38200 *
US-PATENT-CLASS-89-1.801	c 20	N76-22296 *	US-PATENT-2,926,123	c 33	N71-29151 *	US-PATENT-3,132,476	c 28	N70-34294 *
US-PATENT-CLASS-89-1.806	c 15	N71-24043 *	US-PATENT-2,934,331	c 15	N70-33382 *	US-PATENT-3,132,479	c 15	N71-28951 *
US-PATENT-CLASS-89-1.811	c 15	N72-17455 *	US-PATENT-2,940,259	c 28	N70-33241 *	US-PATENT-3,132,903	c 15	N70-38620 *
US-PATENT-CLASS-89-1B	c 01	N83-35992 *	US-PATENT-2,944,316	c 15	N71-16076 *	US-PATENT-3,134,389	c 37	N79-33468 *
US-PATENT-CLASS-89-1	c 03	N70-34667 *	US-PATENT-2,945,667	c 15	N70-33376 *	US-PATENT-3,135,089	c 28	N70-38504 *
US-PATENT-CLASS-89-1	c 15	N71-16078 *	US-PATENT-2,956,772	c 33	N71-29152 *	US-PATENT-3,135,090	c 28	N70-38505 *
US-PATENT-CLASS-89-8	c 11	N71-18578 *	US-PATENT-2,960,002	c 14	N70-41946 *	US-PATENT-3,136,123	c 28	N70-38199 *
US-PATENT-CLASS-89-8	c 11	N73-32152 *	US-PATENT-2,971,837	c 17	N70-33283 *	US-PATENT-3,138,837	c 17	N70-38198 *
US-PATENT-CLASS-89-8	c 75	N76-14931 *	US-PATENT-2,974,925	c 28	N70-33372 *	US-PATENT-3,139,725	c 28	N70-38645 *
US-PATENT-CLASS-89-8	c 75	N76-17951 *	US-PATENT-2,984,735	c 11	N70-33329 *	US-PATENT-3,140,728	c 15	N70-36908 *
US-PATENT-CLASS-89-8	c 09	N79-21084 *	US-PATENT-2,991,671	c 15	N70-33330 *	US-PATENT-3,141,340	c 11	N70-38196 *
US-PATENT-CLASS-9-11A	c 02	N73-28006 *	US-PATENT-2,991,961	c 02	N70-33332 *	US-PATENT-3,141,769	c 28	N70-38197 *
US-PATENT-CLASS-9-11A	c 54	N74-14845 *	US-PATENT-2,996,212	c 31	N71-17680 *	US-PATENT-3,141,932	c 03	N70-38713 *
US-PATENT-CLASS-9-11	c 05	N70-34857 *	US-PATENT-2,997,274	c 28	N71-29154 *	US-PATENT-3,143,321	c 15	N70-34850 *
US-PATENT-CLASS-9-2A	c 02	N73-26006 *	US-PATENT-3,001,363	c 28	N70-33331 *	US-PATENT-3,143,651	c 14	N70-40240 *
US-PATENT-CLASS-9-312	c 05	N71-22748 *	US-PATENT-3,001,395	c 14	N70-33386 *	US-PATENT-3,144,219	c 31	N70-38676 *
US-PATENT-CLASS-9-316	c 05	N70-36493 *	US-PATENT-3,001,739	c 03	N70-33343 *	US-PATENT-3,144,999	c 02	N70-34858 *
US-PATENT-CLASS-9-3	c 02	N73-26006 *	US-PATENT-3,004,189	c 37	N75-29426 *	US-PATENT-3,145,874	c 11	N71-15960 *
US-PATENT-CLASS-9-8	c 03	N70-36778 *	US-PATENT-3,004,735	c 14	N70-33322 *	US-PATENT-3,147,422	c 09	N70-38712 *
US-PATENT-CLASS-9-9	c 15	N71-24600 *	US-PATENT-3,005,081	c 09	N70-33312 *	US-PATENT-3,149,897	c 09	N70-36494 *
US-PATENT-CLASS-90-11	c 15	N71-33518 *	US-PATENT-3,005,339	c 11	N70-33287 *	US-PATENT-3,150,329	c 09	N70-38995 *
US-PATENT-CLASS-90-12.5	c 37	N74-25968 *	US-PATENT-3,008,229	c 15	N70-33311 *	US-PATENT-3,150,387	c 03	N70-36778 *
US-PATENT-CLASS-90-12	c 15	N71-22799 *	US-PATENT-3,010,372	c 15	N70-33180 *	US-PATENT-3,152,344	c 05	N70-36493 *
US-PATENT-CLASS-901-1	c 18	N88-23828 *	US-PATENT-3,011,760	c 15	N70-33226 *	US-PATENT-3,155,992	c 05	N70-34857 *
US-PATENT-CLASS-901-25	c 37	N86-20789 *	US-PATENT-3,012,400	c 28	N70-33374 *	US-PATENT-3,156,090	c 28	N70-37245 *
US-PATENT-CLASS-901-31	c 37	N86-19603 *	US-PATENT-3,012,407	c 15	N70-33323 *	US-PATENT-3,157,529	c 18	N70-36400 *
US-PATENT-CLASS-901-31	c 37	N86-20789 *	US-PATENT-3,016,693	c 28	N70-33356 *	US-PATENT-3,158,172	c 15	N70-34817 *
US-PATENT-CLASS-901-33	c 18	N88-23828 *	US-PATENT-3,016,863	c 12	N70-33305 *	US-PATENT-3,158,336	c 31	N70-36410 *
US-PATENT-CLASS-901-42	c 37	N86-21850 *	US-PATENT-3,022,672	c 14	N70-34816 *	US-PATENT-3,158,764	c 03	N70-36803 *
US-PATENT-CLASS-901-47	c 37	N86-21850 *	US-PATENT-3,024,659	c 14	N70-34820 *	US-PATENT-3,159,967	c 28	N70-36802 *
US-PATENT-CLASS-901-50	c 37	N86-19603 *	US-PATENT-3,028,122	c 02	N70-33286 *	US-PATENT-3,160,825	c 14	N70-35220 *
US-PATENT-CLASS-91-186	c 05	N73-32014 *	US-PATENT-3,028,126	c 21	N70-33279 *	US-PATENT-3,160,950	c 15	N70-36409 *
US-PATENT-CLASS-91-325	c 37	N81-32510 *	US-PATENT-3,028,128	c 31	N70-33242 *	US-PATENT-3,162,012	c 15	N70-36411 *
US-PATENT-CLASS-91-341R	c 37	N81-32510 *	US-PATENT-3,035,333	c 28	N70-41818 *	US-PATENT-3,163,935	c 14	N70-36907 *
US-PATENT-CLASS-91-361	c 15	N71-27754 *	US-PATENT-3,038,077	c 21	N70-33181 *	US-PATENT-3,164,222	c 15	N70-34861 *
US-PATENT-CLASS-91-363A	c 15	N73-13466 *	US-PATENT-3,038,175	c 05	N70-33285 *	US-PATENT-3,164,369	c 15	N70-36412 *
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US-PATENT-3,310,138	c 12	N71-16894 *	US-PATENT-3,340,732	c 02	N71-23007 *	US-PATENT-3,369,222	c 08	N71-22707 *
US-PATENT-3,310,256	c 31	N71-17679 *	US-PATENT-3,341,151	c 31	N71-23009 *	US-PATENT-3,369,223	c 08	N71-22710 *
US-PATENT-3,310,258	c 31	N71-17691 *	US-PATENT-3,341,169	c 15	N71-23024 *	US-PATENT-3,369,564	c 15	N71-23051 *
US-PATENT-3,310,261	c 02	N71-11038 *	US-PATENT-3,341,708	c 16	N71-22895 *	US-PATENT-3,370,039	c 06	N71-22880 *
US-PATENT-3,310,262	c 02	N71-12243 *	US-PATENT-3,341,778	c 07	N71-23098 *	US-PATENT-3,372,588	c 33	N71-29051 *
US-PATENT-3,310,443	c 24	N71-10560 *	US-PATENT-3,341,977	c 15	N71-22705 *	US-PATENT-3,373,016	c 26	N75-27127 *
US-PATENT-3,310,699	c 14	N73-32324 *	US-PATENT-3,342,055	c 15	N71-22797 *	US-PATENT-3,373,069	c 15	N71-23052 *
US-PATENT-3,310,765	c 33	N79-21264 *	US-PATENT-3,342,066	c 11	N71-23030 *	US-PATENT-3,373,404	c 08	N71-22749 *
US-PATENT-3,310,978	c 14	N71-10616 *	US-PATENT-3,342,653	c 15	N71-22713 *	US-PATENT-3,373,430	c 09	N71-22888 *
US-PATENT-3,310,980	c 11	N71-10604 *	US-PATENT-3,343,180	c 05	N71-23159 *	US-PATENT-3,373,431	c 07	N71-22750 *
US-PATENT-3,311,315	c 07	N71-10609 *	US-PATENT-3,343,189	c 05	N71-22748 *	US-PATENT-3,373,640	c 15	N71-22722 *
US-PATENT-3,311,502	c 03	N71-10608 *	US-PATENT-3,344,340	c 09	N71-21449 *	US-PATENT-3,373,914	c 15	N71-23050 *
US-PATENT-3,311,510	c 26	N71-10607 *	US-PATENT-3,344,425	c 10	N71-21483 *	US-PATENT-3,374,339	c 08	N71-22897 *
US-PATENT-3,311,571	c 27	N79-21190 *	US-PATENT-3,345,820	c 28	N71-21822 *	US-PATENT-3,374,366	c 09	N71-23015 *
US-PATENT-3,311,748	c 21	N71-10678 *	US-PATENT-3,345,822	c 27	N71-21819 *	US-PATENT-3,374,830	c 33	N71-22890 *
US-PATENT-3,311,772	c 09	N71-10618 *	US-PATENT-3,345,840	c 15	N71-21536 *	US-PATENT-3,375,451	c 10	N71-22986 *
US-PATENT-3,311,832	c 07	N71-10775 *	US-PATENT-3,345,866	c 11	N71-21481 *	US-PATENT-3,375,479	c 15	N71-23049 *
US-PATENT-3,312,101	c 14	N71-10774 *	US-PATENT-3,346,419	c 03	N71-20895 *	US-PATENT-3,375,712	c 35	N75-29382 *
US-PATENT-3,313,204	c 28	N73-24783 *	US-PATENT-3,346,442	c 18	N71-21651 *	US-PATENT-3,375,885	c 15	N73-32362 *
US-PATENT-3,316,716	c 28	N71-10780 *	US-PATENT-3,346,515	c 06	N71-20905 *	US-PATENT-3,376,730	c 14	N71-22995 *
US-PATENT-3,316,752	c 14	N71-10779 *	US-PATENT-3,346,724	c 15	N71-21179 *	US-PATENT-3,377,208	c 14	N71-23039 *
US-PATENT-3,316,991	c 14	N71-10773 *	US-PATENT-3,346,806	c 14	N71-21090 *	US-PATENT-3,377,845	c 14	N71-22992 *
US-PATENT-3,317,180	c 15	N71-10778 *	US-PATENT-3,346,929	c 15	N71-21076 *	US-PATENT-3,378,315	c 15	N71-22997 *
US-PATENT-3,317,341	c 18	N71-10772 *	US-PATENT-3,347,046	c 33	N71-21507 *	US-PATENT-3,378,657	c 33	N79-33392 *
US-PATENT-3,317,352	c 03	N71-10728 *	US-PATENT-3,347,309	c 33	N71-29046 *	US-PATENT-3,378,851	c 05	N71-23096 *
US-PATENT-3,317,641	c 15	N71-10672 *	US-PATENT-3,347,465	c 18	N71-21068 *	US-PATENT-3,378,892	c 15	N71-22994 *
US-PATENT-3,317,731	c 21	N71-10771 *	US-PATENT-3,347,466	c 28	N71-21493 *	US-PATENT-3,379,052	c 14	N73-32321 *
US-PATENT-3,317,751	c 09	N71-10673 *	US-PATENT-3,347,467	c 15	N71-21177 *	US-PATENT-3,379,064	c 14	N71-23093 *
US-PATENT-3,317,797	c 10	N71-28783 *	US-PATENT-3,347,665	c 17	N71-20743 *	US-PATENT-3,379,330	c 23	N71-22881 *
US-PATENT-3,317,832	c 09	N71-10659 *	US-PATENT-3,348,048	c 14	N71-21088 *	US-PATENT-3,379,885	c 09	N71-22985 *
US-PATENT-3,318,093	c 15	N71-10658 *	US-PATENT-3,348,053	c 10	N71-20782 *	US-PATENT-3,379,974	c 14	N71-22990 *
US-PATENT-3,318,096	c 28	N71-28849 *	US-PATENT-3,348,152	c 10	N71-20841 *	US-PATENT-3,380,042	c 07	N71-23001 *
US-PATENT-3,318,343	c 15	N71-10809 *	US-PATENT-3,348,218	c 10	N71-29135 *	US-PATENT-3,380,049	c 10	N71-23099 *
US-PATENT-3,318,622	c 15	N71-10799 *	US-PATENT-3,349,814	c 33	N71-20834 *	US-PATENT-3,381,339	c 06	N71-22975 *
US-PATENT-3,319,175	c 09	N71-10798 *	US-PATENT-3,350,033	c 14	N71-21082 *	US-PATENT-3,381,517	c 09	N71-22988 *
US-PATENT-3,319,979	c 15	N71-10782 *	US-PATENT-3,350,034	c 31	N71-21064 *	US-PATENT-3,381,527	c 15	N71-22878 *
US-PATENT-3,320,669	c 15	N70-42017 *	US-PATENT-3,350,643	c 07	N71-20791 *	US-PATENT-3,381,569	c 21	N71-22880 *
US-PATENT-3,321,034	c 15	N70-42034 *	US-PATENT-3,350,671	c 09	N71-20842 *	US-PATENT-3,381,778	c 15	N71-22877 *
US-PATENT-3,321,154	c 31	N70-42075 *	US-PATENT-3,350,926	c 14	N71-21091 *	US-PATENT-3,382,082	c 18	N71-22998 *
US-PATENT-3,321,157	c 02	N70-42016 *	US-PATENT-3,352,157	c 14	N71-21072 *	US-PATENT-3,382,105	c 03	N71-29044 *
US-PATENT-3,321,159	c 31	N70-42015 *	US-PATENT-3,352,192	c 15	N71-21489 *	US-PATENT-3,382,107	c 03	N71-22974 *
US-PATENT-3,321,570	c 15	N70-41960 *	US-PATENT-3,352,774	c 37	N80-14395 *	US-PATENT-3,382,714	c 14	N71-22989 *
US-PATENT-3,321,628	c 10	N70-41991 *	US-PATENT-3,353,359	c 28	N71-20942 *	US-PATENT-3,383,461	c 07	N71-23026 *
US-PATENT-3,321,645	c 10	N70-42032 *	US-PATENT-3,354,098	c 06	N71-20717 *	US-PATENT-3,383,524	c 10	N71-23029 *
US-PATENT-3,321,922	c 28	N70-41992 *	US-PATENT-3,354,320	c 23	N71-21821 *	US-PATENT-3,383,903	c 14	N71-23036 *
US-PATENT-3,323,356	c 15	N70-41993 *	US-PATENT-3,354,462	c 14	N71-21006 *	US-PATENT-3,383,922	c 14	N71-22752 *
US-PATENT-3,323,362	c 14	N70-41994 *	US-PATENT-3,355,861	c 18	N71-20742 *	US-PATENT-3,384,016	c 31	N71-23008 *
US-PATENT-3,323,370	c 05	N70-42000 *	US-PATENT-3,355,948	c 14	N71-21007 *	US-PATENT-3,384,075	c 05	N71-22896 *
US-PATENT-3,323,386	c 03	N70-42073 *	US-PATENT-3,356,320	c 05	N71-20718 *	US-PATENT-3,384,111	c 15	N71-22706 *
US-PATENT-3,323,408	c 14	N70-41955 *	US-PATENT-3,356,549	c 15	N71-21404 *	US-PATENT-3,384,324	c 33	N71-22792 *
US-PATENT-3,323,484	c 14	N70-42074 *	US-PATENT-3,356,885	c 25	N71-20747 *	US-PATENT-3,384,820	c 09	N71-23021 *
US-PATENT-3,323,967	c 15	N70-42033 *	US-PATENT-3,356,917	c 33	N79-21265 *	US-PATENT-3,384,895	c 07	N71-22984 *
US-PATENT-3,324,370	c 09	N71-10677 *	US-PATENT-3,357,024	c 12	N71-20815 *	US-PATENT-3,385,036	c 15	N71-22721 *
US-PATENT-3,324,388	c 14	N71-10797 *	US-PATENT-3,357,093	c 15	N71-21078 *	US-PATENT-3,386,337	c 15	N71-22799 *
US-PATENT-3,324,423	c 07	N71-10676 *	US-PATENT-3,357,237	c 33	N71-21586 *	US-PATENT-3,386,685	c 31	N71-22968 *
US-PATENT-3,324,659	c 28	N71-10574 *	US-PATENT-3,357,862	c 03	N71-20904 *	US-PATENT-3,386,686	c 31	N71-22969 *
US-PATENT-3,325,229	c 15	N71-10617 *	US-PATENT-3,358,264	c 09	N71-20851 *	US-PATENT-3,387,149	c 14	N71-22993 *
US-PATENT-3,325,723	c 10	N71-10578 *	US-PATENT-3,359,046	c 15	N71-20739 *	US-PATENT-3,387,218	c 37	N78-17366 *
US-PATENT-3,325,749	c 09	N71-28810 *	US-PATENT-3,359,132	c 09	N71-20705 *	US-PATENT-3,388,258	c 14	N71-22996 *
US-PATENT-3,326,043	c 14	N71-10500 *	US-PATENT-3,359,409	c 07	N71-21476 *	US-PATENT-3,388,387	c 10	N71-23033 *
US-PATENT-3,326,407	c 15	N71-10577 *	US-PATENT-3,359,435	c 15	N71-21311 *	US-PATENT-3,388,590	c 14	N71-23087 *
US-PATENT-3,327,298	c 08	N71-21042 *	US-PATENT-3,359,555	c 09	N71-20864 *	US-PATENT-3,389,017	c 15	N71-23022 *
US-PATENT-3,327,991	c 15	N71-21234 *	US-PATENT-3,359,568	c 54	N78-17680 *	US-PATENT-3,389,260	c 14	N71-23269 *
US-PATENT-3,328,624	c 28	N71-28850 *	US-PATENT-3,359,819	c 15	N71-21744 *	US-PATENT-3,389,346	c 10	N71-28859 *
US-PATENT-3,329,375	c 21	N71-21708 *	US-PATENT-3,359,855	c 23	N71-21882 *	US-PATENT-3,389,877	c 15	N71-28936 *
US-PATENT-3,329,918	c 09	N71-21583 *	US-PATENT-3,360,798	c 09	N71-20658 *	US-PATENT-3,390,017	c 03	N71-23336 *
US-PATENT-3,330,052	c 11	N71-21474 *	US-PATENT-3,360,864	c 14	N71-24693 *	US-PATENT-3,390,020	c 26	N71-23654 *
US-PATENT-3,330,082	c 15	N71-21531 *	US-PATENT-3,360,972	c 15	N71-24833 *	US-PATENT-3,390,023	c 26	N75-29236 *
US-PATENT-3,330,510	c 31	N71-28851 *	US-PATENT-3,360,980	c 14	N71-20741 *	US-PATENT-3,390,282	c 09	N71-23311 *
US-PATENT-3,330,549	c 15	N71-21530 *	US-PATENT-3,360,988	c 09	N71-20816 *	US-PATENT-3,390,378	c 08	N71-23295 *
US-PATENT-3,331,071	c 07	N71-28900 *	US-PATENT-3,361,045	c 15	N71-21060 *	US-PATENT-3,390,528	c 20	N79-21124 *
US-PATENT-3,331,246	c 11	N71-21475 *	US-PATENT-3,361,067	c 26	N71-21824 *	US-PATENT-3,391,080	c 15	N71-24046 *
US-PATENT-3,331,255	c 15	N71-21529 *	US-PATENT-3,361,400	c 15	N71-20813 *	US-PATENT-3,392,403	c 23	N71-23976 *
US-PATENT-3,331,404	c 12	N71-21089 *	US-PATENT-3,361,666	c 15	N71-21403 *	US-PATENT-3,392,586	c 14	N71-24232 *
US-PATENT-3,331,951	c 21	N71-21688 *	US-PATENT-3,361,985	c 10	N71-20852 *	US-PATENT-3,392,864	c 18	N71-23658 *
US-PATENT-3,333,152	c 25	N71-21693 *	US-PATENT-3,364,311	c 07	N71-20814 *	US-PATENT-3,392,865	c 15	N71-23816 *
US-PATENT-3,333,788	c 31	N71-21881 *	US-PATENT-3,364,366	c 09	N71-28926 *	US-PATENT-3,392,933	c 01	N71-23497 *
US-PATENT-3,334,225	c 14	N73-32325 *	US-PATENT-3,364,578	c 14	N71-21079 *	US-PATENT-3,393,059	c 06	N71-23499 *
US-PATENT-3,336,725	c 15	N71-21528 *	US-PATENT-3,364,631	c 32	N71-21045 *	US-PATENT-3,393,330	c 22	N71-23599 *
US-PATENT-3,336,748	c 25	N71-21694 *	US-PATENT-3,364,777	c 15	N71-20740 *	US-PATENT-3,393,332	c 09	N71-23443 *
US-PATENT-3,336,754	c 28	N71-22983 *	US-PATENT-3,364,813	c 09	N71-22999 *	US-PATENT-3,393,347	c 10	N71-23543 *
US-PATENT-3,337,004	c 14	N71-23092 *	US-PATENT-3,365,657	c 10	N71-22961 *	US-PATENT-3,393,380	c 10	N71-23544 *
US-PATENT-3,337,279	c 05	N71-23080 *	US-PATENT-3,365,665	c 14	N71-23037 *	US-PATENT-3,393,384	c 09	N71-23573 *
US-PATENT-3,337,315	c 18	N71-23088 *	US-PATENT-3,365,897	c 33	N71-28892 *	US-PATENT-3,394,286	c 14	N73-30391 *
US-PATENT-3,337,337	c 18	N71-22894 *	US-PATENT-3,365,930	c 14	N71-22964 *	US-PATENT-3,394,359	c 08	N71-28925 *

US-PATENT-3,394,975	c 23	N71-30027 *	US-PATENT-3,422,278	c 09	N69-21468 *	US-PATENT-3,443,416	c 06	N69-39936 *
US-PATENT-3,395,053	c 18	N71-23047 *	US-PATENT-3,422,291	c 25	N69-21929 *	US-PATENT-3,443,472	c 15	N71-23254 *
US-PATENT-3,395,565	c 14	N73-30390 *	US-PATENT-3,422,324	c 14	N69-21541 *	US-PATENT-3,443,583	c 14	N71-18625 *
US-PATENT-3,396,057	c 26	N71-23043 *	US-PATENT-3,422,352	c 14	N71-19431 *	US-PATENT-3,443,584	c 32	N71-16106 *
US-PATENT-3,396,184	c 06	N71-28808 *	US-PATENT-3,422,354	c 09	N69-21926 *	US-PATENT-3,443,732	c 15	N71-15607 *
US-PATENT-3,396,303	c 09	N71-22987 *	US-PATENT-3,422,390	c 09	N69-21927 *	US-PATENT-3,443,773	c 31	N71-23912 *
US-PATENT-3,396,584	c 14	N71-30026 *	US-PATENT-3,422,403	c 08	N69-21928 *	US-PATENT-3,443,779	c 01	N69-39981 *
US-PATENT-3,396,719	c 52	N79-21750 *	US-PATENT-3,422,440	c 09	N69-21467 *	US-PATENT-3,444,051	c 05	N71-11207 *
US-PATENT-3,396,920	c 31	N71-29050 *	US-PATENT-3,423,179	c 15	N69-21922 *	US-PATENT-3,444,127	c 06	N71-11237 *
US-PATENT-3,397,094	c 26	N71-29156 *	US-PATENT-3,423,290	c 06	N71-17705 *	US-PATENT-3,444,375	c 14	N71-15599 *
US-PATENT-3,397,117	c 15	N71-23086 *	US-PATENT-3,423,579	c 09	N71-19480 *	US-PATENT-3,444,380	c 07	N69-39980 *
US-PATENT-3,397,318	c 14	N71-22991 *	US-PATENT-3,423,608	c 09	N69-21313 *	US-PATENT-3,446,075	c 14	N73-30394 *
US-PATENT-3,397,512	c 15	N71-23023 *	US-PATENT-3,423,627	c 33	N78-17293 *	US-PATENT-3,446,387	c 15	N69-39935 *
US-PATENT-3,397,537	c 20	N79-21125 *	US-PATENT-3,424,966	c 10	N71-20448 *	US-PATENT-3,446,558	c 16	N71-24074 *
US-PATENT-3,397,932	c 15	N71-22982 *	US-PATENT-3,425,131	c 15	N71-19489 *	US-PATENT-3,446,642	c 18	N69-39895 *
US-PATENT-3,399,299	c 10	N71-23662 *	US-PATENT-3,425,268	c 14	N69-39975 *	US-PATENT-3,446,676	c 03	N71-11050 *
US-PATENT-3,399,574	c 32	N71-24285 *	US-PATENT-3,425,272	c 14	N71-20439 *	US-PATENT-3,446,960	c 14	N69-39982 *
US-PATENT-3,402,265	c 09	N73-28084 *	US-PATENT-3,425,276	c 14	N69-24257 *	US-PATENT-3,446,992	c 09	N69-39987 *
US-PATENT-3,404,289	c 09	N71-23545 *	US-PATENT-3,425,486	c 05	N71-24147 *	US-PATENT-3,446,997	c 03	N69-39898 *
US-PATENT-3,404,348	c 32	N74-22096 *	US-PATENT-3,425,487	c 05	N71-19439 *	US-PATENT-3,446,998	c 09	N69-39929 *
US-PATENT-3,405,406	c 05	N71-23161 *	US-PATENT-3,425,885	c 15	N69-24322 *	US-PATENT-3,447,003	c 09	N71-20446 *
US-PATENT-3,405,887	c 31	N71-24315 *	US-PATENT-3,426,219	c 09	N69-24317 *	US-PATENT-3,447,015	c 06	N69-39889 *
US-PATENT-3,406,336	c 10	N71-24863 *	US-PATENT-3,426,230	c 15	N69-24319 *	US-PATENT-3,447,071	c 25	N69-39884 *
US-PATENT-3,406,742	c 33	N71-24276 *	US-PATENT-3,426,263	c 03	N71-19438 *	US-PATENT-3,447,154	c 21	N71-11766 *
US-PATENT-3,407,304	c 14	N71-23240 *	US-PATENT-3,426,272	c 14	N69-39785 *	US-PATENT-3,447,155	c 09	N71-18598 *
US-PATENT-3,408,816	c 28	N71-24736 *	US-PATENT-3,426,746	c 05	N71-26293 *	US-PATENT-3,447,233	c 15	N69-39786 *
US-PATENT-3,408,870	c 14	N71-23227 *	US-PATENT-3,426,791	c 15	N71-19569 *	US-PATENT-3,447,774	c 15	N71-19485 *
US-PATENT-3,409,247	c 33	N71-28903 *	US-PATENT-3,427,047	c 15	N69-27490 *	US-PATENT-3,447,850	c 09	N71-18600 *
US-PATENT-3,409,252	c 15	N71-23255 *	US-PATENT-3,427,089	c 23	N69-24332 *	US-PATENT-3,448,273	c 07	N69-39736 *
US-PATENT-3,409,554	c 26	N71-23292 *	US-PATENT-3,427,093	c 09	N71-19479 *	US-PATENT-3,448,290	c 10	N71-23315 *
US-PATENT-3,409,730	c 33	N71-24145 *	US-PATENT-3,427,097	c 11	N69-24321 *	US-PATENT-3,448,341	c 09	N71-12526 *
US-PATENT-3,411,356	c 14	N71-23226 *	US-PATENT-3,427,205	c 15	N69-24320 *	US-PATENT-3,448,346	c 15	N71-18701 *
US-PATENT-3,411,900	c 26	N75-27126 *	US-PATENT-3,427,435	c 17	N69-25147 *	US-PATENT-3,450,842	c 07	N69-39978 *
US-PATENT-3,412,559	c 28	N71-23293 *	US-PATENT-3,427,454	c 05	N71-19440 *	US-PATENT-3,450,878	c 14	N71-20430 *
US-PATENT-3,412,598	c 14	N71-23225 *	US-PATENT-3,427,525	c 03	N69-21330 *	US-PATENT-3,450,946	c 09	N69-39897 *
US-PATENT-3,412,729	c 04	N71-23185 *	US-PATENT-3,428,761	c 09	N69-24329 *	US-PATENT-3,452,103	c 06	N73-30101 *
US-PATENT-3,412,961	c 32	N71-23971 *	US-PATENT-3,428,812	c 14	N69-27485 *	US-PATENT-3,452,423	c 26	N71-16037 *
US-PATENT-3,413,115	c 17	N71-23365 *	US-PATENT-3,428,847	c 15	N69-24266 *	US-PATENT-3,452,872	c 14	N69-39896 *
US-PATENT-3,413,393	c 17	N71-29137 *	US-PATENT-3,428,910	c 09	N69-24330 *	US-PATENT-3,453,172	c 15	N69-39735 *
US-PATENT-3,413,510	c 09	N71-23190 *	US-PATENT-3,428,919	c 07	N69-24334 *	US-PATENT-3,453,462	c 03	N69-39983 *
US-PATENT-3,413,536	c 03	N71-24605 *	US-PATENT-3,428,923	c 07	N69-27462 *	US-PATENT-3,453,546	c 05	N71-12342 *
US-PATENT-3,414,012	c 09	N71-23191 *	US-PATENT-3,428,958	c 12	N69-39988 *	US-PATENT-3,453,878	c 09	N79-21083 *
US-PATENT-3,414,358	c 14	N71-23175 *	US-PATENT-3,429,177	c 06	N69-39733 *	US-PATENT-3,454,410	c 18	N69-39979 *
US-PATENT-3,415,032	c 15	N71-23256 *	US-PATENT-3,429,477	c 15	N69-27502 *	US-PATENT-3,454,766	c 35	N75-27329 *
US-PATENT-3,415,069	c 15	N71-24044 *	US-PATENT-3,429,756	c 76	N79-21910 *	US-PATENT-3,455,121	c 14	N71-20427 *
US-PATENT-3,415,116	c 14	N71-23790 *	US-PATENT-3,430,063	c 09	N69-27500 *	US-PATENT-3,455,171	c 23	N71-16098 *
US-PATENT-3,415,126	c 21	N71-23289 *	US-PATENT-3,430,115	c 09	N69-24318 *	US-PATENT-3,456,112	c 14	N69-39937 *
US-PATENT-3,415,156	c 15	N71-24043 *	US-PATENT-3,430,131	c 24	N71-20518 *	US-PATENT-3,456,193	c 08	N71-19763 *
US-PATENT-3,415,643	c 17	N71-23248 *	US-PATENT-3,430,182	c 14	N69-27431 *	US-PATENT-3,456,201	c 09	N69-39885 *
US-PATENT-3,416,106	c 09	N71-24808 *	US-PATENT-3,430,227	c 08	N71-19687 *	US-PATENT-3,458,104	c 15	N71-20393 *
US-PATENT-3,416,274	c 31	N71-24035 *	US-PATENT-3,430,237	c 07	N69-39974 *	US-PATENT-3,458,313	c 14	N71-17574 *
US-PATENT-3,416,939	c 18	N71-24183 *	US-PATENT-3,430,460	c 15	N69-27505 *	US-PATENT-3,458,651	c 09	N71-19449 *
US-PATENT-3,416,975	c 17	N71-23828 *	US-PATENT-3,430,902	c 14	N69-27486 *	US-PATENT-3,458,702	c 14	N71-18699 *
US-PATENT-3,416,988	c 15	N71-24164 *	US-PATENT-3,430,909	c 11	N69-27466 *	US-PATENT-3,458,726	c 10	N69-39888 *
US-PATENT-3,417,247	c 14	N71-23797 *	US-PATENT-3,430,937	c 15	N69-27483 *	US-PATENT-3,458,833	c 10	N71-19418 *
US-PATENT-3,417,266	c 09	N71-23270 *	US-PATENT-3,430,942	c 15	N69-27504 *	US-PATENT-3,458,851	c 09	N69-39734 *
US-PATENT-3,417,298	c 10	N71-23271 *	US-PATENT-3,431,149	c 14	N69-27459 *	US-PATENT-3,459,391	c 03	N71-11058 *
US-PATENT-3,417,316	c 14	N71-23174 *	US-PATENT-3,431,397	c 15	N69-27871 *	US-PATENT-3,460,378	c 14	N71-24233 *
US-PATENT-3,417,321	c 09	N71-23316 *	US-PATENT-3,431,460	c 09	N71-23189 *	US-PATENT-3,460,379	c 15	N71-24834 *
US-PATENT-3,417,332	c 07	N71-23405 *	US-PATENT-3,431,559	c 09	N69-24333 *	US-PATENT-3,460,381	c 14	N71-23725 *
US-PATENT-3,417,399	c 30	N71-23723 *	US-PATENT-3,432,730	c 09	N69-27422 *	US-PATENT-3,460,397	c 15	N71-24045 *
US-PATENT-3,417,400	c 07	N71-28809 *	US-PATENT-3,433,015	c 28	N71-20330 *	US-PATENT-3,460,759	c 28	N71-23968 *
US-PATENT-3,419,329	c 14	N71-23268 *	US-PATENT-3,433,079	c 14	N69-27503 *	US-PATENT-3,460,781	c 14	N71-23698 *
US-PATENT-3,419,363	c 18	N71-23710 *	US-PATENT-3,433,662	c 14	N71-20461 *	US-PATENT-3,460,995	c 03	N71-20407 *
US-PATENT-3,419,384	c 17	N73-28573 *	US-PATENT-3,433,818	c 06	N71-23230 *	US-PATENT-3,461,290	c 14	N71-26475 *
US-PATENT-3,419,433	c 03	N71-23187 *	US-PATENT-3,433,909	c 10	N71-23663 *	US-PATENT-3,461,393	c 10	N71-26415 *
US-PATENT-3,419,531	c 27	N79-21191 *	US-PATENT-3,433,953	c 14	N69-27484 *	US-PATENT-3,461,437	c 10	N71-26434 *
US-PATENT-3,419,537	c 06	N71-23500 *	US-PATENT-3,433,960	c 16	N69-27491 *	US-PATENT-3,461,700	c 15	N71-26346 *
US-PATENT-3,419,827	c 09	N71-23548 *	US-PATENT-3,433,961	c 14	N69-27432 *	US-PATENT-3,461,721	c 12	N71-20436 *
US-PATENT-3,419,964	c 14	N69-21363 *	US-PATENT-3,434,033	c 09	N69-39984 *	US-PATENT-3,461,855	c 05	N71-20268 *
US-PATENT-3,419,992	c 14	N71-23401 *	US-PATENT-3,434,037	c 10	N71-26414 *	US-PATENT-3,463,001	c 14	N71-20429 *
US-PATENT-3,420,069	c 15	N69-21465 *	US-PATENT-3,434,050	c 09	N71-20569 *	US-PATENT-3,463,563	c 15	N71-23812 *
US-PATENT-3,420,223	c 05	N69-21925 *	US-PATENT-3,434,064	c 09	N69-39986 *	US-PATENT-3,463,673	c 03	N71-20491 *
US-PATENT-3,420,225	c 05	N69-21473 *	US-PATENT-3,434,855	c 18	N71-24184 *	US-PATENT-3,463,679	c 17	N71-24142 *
US-PATENT-3,420,253	c 12	N69-21466 *	US-PATENT-3,434,885	c 03	N71-20492 *	US-PATENT-3,463,761	c 06	N73-30099 *
US-PATENT-3,420,338	c 15	N71-26243 *	US-PATENT-3,435,246	c 14	N69-24331 *	US-PATENT-3,463,762	c 06	N73-30100 *
US-PATENT-3,420,471	c 05	N69-21380 *	US-PATENT-3,437,394	c 14	N69-27461 *	US-PATENT-3,463,939	c 10	N71-19471 *
US-PATENT-3,420,704	c 15	N69-21460 *	US-PATENT-3,437,527	c 03	N69-24267 *	US-PATENT-3,464,012	c 14	N71-26244 *
US-PATENT-3,420,945	c 09	N69-21542 *	US-PATENT-3,437,560	c 04	N69-27487 *	US-PATENT-3,464,016	c 10	N71-19472 *
US-PATENT-3,420,978	c 15	N69-21471 *	US-PATENT-3,437,818	c 03	N71-23354 *	US-PATENT-3,464,018	c 09	N71-23525 *
US-PATENT-3,421,004	c 14	N71-19568 *	US-PATENT-3,437,832	c 09	N69-27463 *	US-PATENT-3,464,049	c 32	N71-15974 *
US-PATENT-3,421,053	c 15	N69-21472 *	US-PATENT-3,437,874	c 08	N71-20571 *	US-PATENT-3,464,051	c 15	N71-17685 *
US-PATENT-3,421,056	c 14	N69-23191 *	US-PATENT-3,437,903	c 03	N69-25146 *	US-PATENT-3,465,482	c 31	N71-16080 *
US-PATENT-3,421,105	c 09	N69-21543 *	US-PATENT-3,437,919	c 14	N69-27423 *	US-PATENT-3,465,567	c 15	N71-18579 *
US-PATENT-3,421,134	c 09	N69-21470 *	US-PATENT-3,437,935	c 09	N69-24324 *	US-PATENT-3,465,569	c 14	N71-17659 *
US-PATENT-3,421,331	c 15	N69-23190 *	US-PATENT-3,437,959	c 07	N69-24323 *	US-PATENT-3,465,584	c 14	N71-23726 *
US-PATENT-3,421,363	c 11	N69-21540 *	US-PATENT-3,438,044	c 07	N69-27460 *	US-PATENT-3,465,638	c 11	N71-18578 *
US-PATENT-3,421,506	c 05	N69-23192 *	US-PATENT-3,438,263	c 14	N71-20435 *	US-PATENT-3,465,986	c 31	N71-20396 *
US-PATENT-3,421,541	c 15	N69-21924 *	US-PATENT-3,439,886	c 31	N69-27499 *	US-PATENT-3,466,052	c 15	N71-19570 *
US-PATENT-3,421,549	c 03	N69-21469 *	US-PATENT-3,440,419	c 14	N73-28491 *	US-PATENT-3,466,085	c 05	N71-12343 *
US-PATENT-3,421,591	c 14	N69-21923 *	US-PATENT-3,442,674	c 25	N82-29370 *	US-PATENT-3,466,198	c 03	N71-19545 *
US-PATENT-3,421,700	c 15	N69-23185 *	US-PATENT-3,443,128	c 03	N69-39890 *	US-PATENT-3,466,243	c 15	N71-23810 *
US-PATENT-3,421,768	c 15	N69-21362 *	US-PATENT-3,443,208	c 14	N71-20428 *	US-PATENT-3,466,418	c 15	N71-18613 *
US-PATENT-3,421,864	c 17	N71-23046 *	US-PATENT-3,443,384	c 28	N71-24321 *	US-PATENT-3,466,424	c 15	N71-20395 *
US-PATENT-3,421,948	c 03	N69-21337 *	US-PATENT-3,443,390	c 11	N71-24964 *	US-PATENT-3,466,459	c 09	N71-26000 *
US-PATENT-3,422,213	c 03	N69-21539 *	US-PATENT-3,443,412	c 15	N71-23811 *	US-PATENT-3,466,484	c 14	N71-18482 *

US-PATENT-3,466,560	c 09	N71-19466 *	US-PATENT-3,491,202	c 07	N71-12392 *	US-PATENT-3,509,475	c 09	N71-24596 *
US-PATENT-3,466,570	c 10	N71-25950 *	US-PATENT-3,491,255	c 09	N71-12514 *	US-PATENT-3,509,491	c 09	N71-18721 *
US-PATENT-3,467,837	c 05	N71-23317 *	US-PATENT-3,491,335	c 14	N71-15620 *	US-PATENT-3,509,551	c 08	N71-18694 *
US-PATENT-3,468,303	c 09	N71-26002 *	US-PATENT-3,491,857	c 14	N71-17626 *	US-PATENT-3,509,558	c 08	N71-19435 *
US-PATENT-3,468,548	c 15	N71-26294 *	US-PATENT-3,492,176	c 27	N71-14090 *	US-PATENT-3,509,570	c 09	N71-18720 *
US-PATENT-3,468,609	c 16	N71-24170 *	US-PATENT-3,492,672	c 05	N71-12344 *	US-PATENT-3,509,578	c 07	N71-19493 *
US-PATENT-3,468,727	c 14	N71-25892 *	US-PATENT-3,492,739	c 15	N71-15571 *	US-PATENT-3,511,680	c 31	N79-21227 *
US-PATENT-3,468,765	c 17	N71-25903 *	US-PATENT-3,492,858	c 35	N78-17358 *	US-PATENT-3,512,009	c 08	N71-18751 *
US-PATENT-3,469,068	c 15	N71-23815 *	US-PATENT-3,492,862	c 14	N71-15600 *	US-PATENT-3,514,785	c 54	N78-18761 *
US-PATENT-3,469,069	c 15	N71-23798 *	US-PATENT-3,492,947	c 28	N71-14058 *	US-PATENT-3,516,091	c 05	N71-24623 *
US-PATENT-3,469,087	c 16	N71-25914 *	US-PATENT-3,493,003	c 15	N71-15609 *	US-PATENT-3,516,179	c 11	N71-19494 *
US-PATENT-3,469,143	c 33	N75-29318 *	US-PATENT-3,493,004	c 12	N71-17579 *	US-PATENT-3,516,185	c 12	N71-18603 *
US-PATENT-3,469,289	c 15	N71-25975 *	US-PATENT-3,493,012	c 15	N71-15608 *	US-PATENT-3,516,284	c 12	N71-17573 *
US-PATENT-3,469,375	c 14	N71-18483 *	US-PATENT-3,493,027	c 31	N71-18611 *	US-PATENT-3,516,404	c 05	N71-17599 *
US-PATENT-3,469,436	c 15	N71-23817 *	US-PATENT-3,493,153	c 05	N71-12351 *	US-PATENT-3,516,711	c 05	N71-12341 *
US-PATENT-3,469,437	c 14	N71-24234 *	US-PATENT-3,493,155	c 26	N71-14354 *	US-PATENT-3,516,879	c 23	N71-16212 *
US-PATENT-3,469,734	c 11	N71-17600 *	US-PATENT-3,493,194	c 21	N71-14132 *	US-PATENT-3,516,964	c 06	N71-11240 *
US-PATENT-3,470,043	c 15	N71-24047 *	US-PATENT-3,493,197	c 02	N71-11043 *	US-PATENT-3,516,970	c 06	N71-11239 *
US-PATENT-3,470,304	c 14	N71-23267 *	US-PATENT-3,493,291	c 14	N71-15622 *	US-PATENT-3,516,971	c 06	N71-24740 *
US-PATENT-3,470,313	c 07	N71-26579 *	US-PATENT-3,493,294	c 14	N71-15605 *	US-PATENT-3,517,109	c 07	N71-19436 *
US-PATENT-3,470,318	c 07	N71-24612 *	US-PATENT-3,493,401	c 18	N71-14014 *	US-PATENT-3,517,162	c 33	N71-16278 *
US-PATENT-3,470,342	c 09	N71-19610 *	US-PATENT-3,493,415	c 15	N71-15610 *	US-PATENT-3,517,171	c 08	N71-24633 *
US-PATENT-3,470,443	c 03	N71-23239 *	US-PATENT-3,493,437	c 03	N71-11056 *	US-PATENT-3,517,221	c 10	N71-19547 *
US-PATENT-3,470,446	c 09	N71-23188 *	US-PATENT-3,493,522	c 06	N71-11243 *	US-PATENT-3,517,268	c 10	N71-19469 *
US-PATENT-3,470,466	c 14	N71-23699 *	US-PATENT-3,493,524	c 06	N71-11242 *	US-PATENT-3,517,302	c 25	N71-16073 *
US-PATENT-3,470,475	c 10	N71-19467 *	US-PATENT-3,493,665	c 14	N71-15621 *	US-PATENT-3,517,318	c 08	N71-19432 *
US-PATENT-3,470,489	c 09	N71-23598 *	US-PATENT-3,493,677	c 07	N71-11300 *	US-PATENT-3,517,328	c 16	N71-18614 *
US-PATENT-3,470,495	c 10	N71-23669 *	US-PATENT-3,493,711	c 15	N71-14932 *	US-PATENT-3,518,232	c 06	N71-11235 *
US-PATENT-3,470,496	c 09	N71-19470 *	US-PATENT-3,493,746	c 15	N71-15606 *	US-PATENT-3,519,483	c 44	N82-24644 *
US-PATENT-3,471,856	c 30	N71-16090 *	US-PATENT-3,493,797	c 15	N71-17652 *	US-PATENT-3,519,484	c 44	N82-24643 *
US-PATENT-3,471,858	c 07	N71-12391 *	US-PATENT-3,493,805	c 09	N71-12521 *	US-PATENT-3,520,190	c 10	N71-13537 *
US-PATENT-3,472,019	c 10	N71-26326 *	US-PATENT-3,493,901	c 09	N71-12517 *	US-PATENT-3,520,238	c 14	N71-18465 *
US-PATENT-3,472,059	c 14	N71-23755 *	US-PATENT-3,493,929	c 08	N71-12505 *	US-PATENT-3,520,317	c 12	N71-17578 *
US-PATENT-3,472,060	c 14	N71-26136 *	US-PATENT-3,493,942	c 08	N71-12504 *	US-PATENT-3,520,496	c 31	N71-16345 *
US-PATENT-3,472,069	c 15	N71-20441 *	US-PATENT-3,495,260	c 21	N71-13958 *	US-PATENT-3,520,503	c 31	N71-16085 *
US-PATENT-3,472,080	c 10	N71-26339 *	US-PATENT-3,495,262	c 07	N71-12396 *	US-PATENT-3,520,617	c 23	N71-16101 *
US-PATENT-3,472,086	c 15	N71-23809 *	US-PATENT-3,498,840	c 44	N82-24642 *	US-PATENT-3,520,660	c 23	N71-16355 *
US-PATENT-3,472,140	c 14	N71-26474 *	US-PATENT-3,498,841	c 44	N82-24641 *	US-PATENT-3,521,054	c 06	N71-13461 *
US-PATENT-3,472,202	c 17	N71-24911 *	US-PATENT-3,500,020	c 01	N71-13411 *	US-PATENT-3,521,143	c 08	N71-18752 *
US-PATENT-3,472,372	c 15	N71-20440 *	US-PATENT-3,500,525	c 15	N71-17688 *	US-PATENT-3,521,290	c 31	N71-16102 *
US-PATENT-3,472,470	c 02	N71-20570 *	US-PATENT-3,500,677	c 14	N71-17584 *	US-PATENT-3,523,228	c 10	N71-24861 *
US-PATENT-3,472,577	c 23	N71-24857 *	US-PATENT-3,500,686	c 12	N71-17569 *	US-PATENT-3,526,030	c 15	N71-17686 *
US-PATENT-3,472,625	c 06	N71-23527 *	US-PATENT-3,500,688	c 14	N71-17587 *	US-PATENT-3,526,134	c 33	N71-16356 *
US-PATENT-3,472,629	c 14	N71-20442 *	US-PATENT-3,500,747	c 09	N71-18599 *	US-PATENT-3,526,139	c 31	N71-16221 *
US-PATENT-3,472,698	c 03	N71-23449 *	US-PATENT-3,500,827	c 05	N71-11203 *	US-PATENT-3,526,140	c 27	N71-16223 *
US-PATENT-3,472,709	c 18	N71-26153 *	US-PATENT-3,501,112	c 15	N71-17693 *	US-PATENT-3,526,359	c 33	N71-16357 *
US-PATENT-3,472,742	c 17	N71-24830 *	US-PATENT-3,501,632	c 27	N71-16348 *	US-PATENT-3,526,365	c 28	N71-16224 *
US-PATENT-3,472,998	c 16	N71-20400 *	US-PATENT-3,501,641	c 20	N71-16340 *	US-PATENT-3,526,372	c 31	N71-16346 *
US-PATENT-3,473,050	c 09	N71-20447 *	US-PATENT-3,501,648	c 10	N71-24799 *	US-PATENT-3,526,382	c 15	N71-17649 *
US-PATENT-3,473,116	c 25	N71-20563 *	US-PATENT-3,501,649	c 10	N71-18723 *	US-PATENT-3,526,460	c 23	N71-16365 *
US-PATENT-3,473,165	c 05	N71-26333 *	US-PATENT-3,501,664	c 14	N71-17585 *	US-PATENT-3,526,473	c 18	N71-15545 *
US-PATENT-3,473,216	c 15	N71-20443 *	US-PATENT-3,501,683	c 15	N71-17694 *	US-PATENT-3,526,580	c 18	N71-16210 *
US-PATENT-3,473,379	c 12	N71-26387 *	US-PATENT-3,501,684	c 09	N71-26092 *	US-PATENT-3,526,611	c 06	N71-11236 *
US-PATENT-3,473,758	c 03	N71-20273 *	US-PATENT-3,501,701	c 08	N71-18692 *	US-PATENT-3,526,845	c 09	N71-13531 *
US-PATENT-3,474,192	c 07	N71-26102 *	US-PATENT-3,501,704	c 07	N71-11282 *	US-PATENT-3,526,897	c 09	N71-13521 *
US-PATENT-3,474,220	c 15	N71-19486 *	US-PATENT-3,501,712	c 09	N71-19516 *	US-PATENT-3,527,724	c 27	N78-33228 *
US-PATENT-3,474,328	c 14	N71-26266 *	US-PATENT-3,501,743	c 09	N71-18843 *	US-PATENT-3,529,480	c 15	N71-17692 *
US-PATENT-3,474,357	c 09	N71-20445 *	US-PATENT-3,501,750	c 08	N71-19288 *	US-PATENT-3,529,928	c 17	N71-16393 *
US-PATENT-3,474,413	c 10	N71-26103 *	US-PATENT-3,501,752	c 08	N71-18595 *	US-PATENT-3,530,336	c 09	N71-13518 *
US-PATENT-3,474,441	c 08	N71-19544 *	US-PATENT-3,501,764	c 10	N71-18722 *	US-PATENT-3,531,964	c 15	N71-18616 *
US-PATENT-3,475,384	c 06	N73-30103 *	US-PATENT-3,502,051	c 15	N71-17647 *	US-PATENT-3,531,978	c 14	N71-18481 *
US-PATENT-3,475,442	c 26	N75-27125 *	US-PATENT-3,502,074	c 05	N71-11190 *	US-PATENT-3,531,982	c 15	N71-18132 *
US-PATENT-3,475,675	c 33	N78-17295 *	US-PATENT-3,502,141	c 33	N71-16277 *	US-PATENT-3,531,989	c 33	N71-15641 *
US-PATENT-3,478,514	c 37	N77-22479 *	US-PATENT-3,503,251	c 32	N71-16428 *	US-PATENT-3,532,118	c 12	N71-18615 *
US-PATENT-3,480,789	c 10	N71-26626 *	US-PATENT-3,504,258	c 10	N71-18724 *	US-PATENT-3,532,127	c 15	N71-18580 *
US-PATENT-3,481,638	c 15	N71-26312 *	US-PATENT-3,504,983	c 23	N71-16341 *	US-PATENT-3,532,428	c 21	N71-19212 *
US-PATENT-3,481,802	c 31	N79-21226 *	US-PATENT-3,506,496	c 44	N82-24645 *	US-PATENT-3,532,428	c 30	N71-15990 *
US-PATENT-3,481,887	c 18	N71-26155 *	US-PATENT-3,507,034	c 15	N71-17650 *	US-PATENT-3,532,538	c 18	N71-16046 *
US-PATENT-3,482,179	c 10	N71-26331 *	US-PATENT-3,507,114	c 27	N71-16392 *	US-PATENT-3,532,551	c 03	N71-11049 *
US-PATENT-3,483,535	c 10	N71-26418 *	US-PATENT-3,507,146	c 05	N71-11202 *	US-PATENT-3,532,568	c 17	N71-16044 *
US-PATENT-3,484,712	c 10	N71-26374 *	US-PATENT-3,507,150	c 20	N71-16281 *	US-PATENT-3,532,673	c 06	N71-11238 *
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US-PATENT-3,583,777	c 15	N71-28465 *	US-PATENT-3,609,353	c 14	N72-17328 *	US-PATENT-3,629,161	c 18	N72-22567 *
US-PATENT-3,583,815	c 15	N71-28740 *	US-PATENT-3,609,364	c 10	N72-17173 *	US-PATENT-3,630,276	c 33	N72-20915 *
US-PATENT-3,584,311	c 09	N71-28468 *	US-PATENT-3,609,387	c 09	N72-17157 *	US-PATENT-3,630,304	c 11	N72-20244 *
US-PATENT-3,584,660	c 15	N72-12408 *	US-PATENT-3,609,535	c 14	N72-17325 *	US-PATENT-3,630,627	c 03	N72-20033 *
US-PATENT-3,585,514	c 10	N71-33129 *	US-PATENT-3,609,567	c 10	N72-17171 *	US-PATENT-3,631,339	c 08	N72-20177 *
US-PATENT-3,585,882	c 15	N71-33518 *	US-PATENT-3,609,740	c 05	N72-16015 *	US-PATENT-3,631,351	c 10	N72-20224 *
US-PATENT-3,586,261	c 31	N71-33160 *	US-PATENT-3,610,365	c 15	N72-17451 *	US-PATENT-3,631,382	c 09	N72-20200 *
US-PATENT-3,587,306	c 11	N71-33612 *	US-PATENT-3,611,274	c 15	N72-17455 *	US-PATENT-3,631,737	c 15	N72-28495 *
US-PATENT-3,587,424	c 16	N71-33410 *	US-PATENT-3,611,330	c 23	N72-17747 *	US-PATENT-3,632,081	c 15	N72-20442 *
US-PATENT-3,588,220	c 23	N71-33229 *	US-PATENT-3,611,798	c 14	N72-22437 *	US-PATENT-3,632,140	c 15	N72-20445 *
US-PATENT-3,588,331	c 07	N72-12081 *	US-PATENT-3,611,801	c 14	N72-17329 *	US-PATENT-3,632,242	c 15	N72-20446 *
US-PATENT-3,588,359	c 07	N71-33108 *	US-PATENT-3,612,030	c 46	N74-23069 *	US-PATENT-3,632,923	c 09	N72-20199 *
US-PATENT-3,588,483	c 08	N71-33110 *	US-PATENT-3,612,391	c 11	N72-22245 *	US-PATENT-3,632,996	c 08	N72-20176 *
US-PATENT-3,588,648	c 07	N71-33613 *	US-PATENT-3,612,442	c 28	N72-22769 *	US-PATENT-3,633,048	c 10	N72-20221 *
US-PATENT-3,588,671	c 09	N71-33109 *	US-PATENT-3,612,645	c 14	N72-22441 *	US-PATENT-3,633,110	c 07	N72-20141 *
US-PATENT-3,588,705	c 07	N71-33696 *	US-PATENT-3,612,743	c 09	N72-22198 *	US-PATENT-3,634,383	c 27	N72-22710 *
US-PATENT-3,588,751	c 07	N71-33606 *	US-PATENT-3,612,895	c 09	N72-22197 *	US-PATENT-3,635,216	c 05	N72-20096 *
US-PATENT-3,588,874	c 09	N71-33519 *	US-PATENT-3,613,110	c 08	N72-21199 *	US-PATENT-3,635,537	c 33	N80-14330 *
US-PATENT-3,588,883	c 10	N71-33407 *	US-PATENT-3,613,111	c 08	N72-21200 *	US-PATENT-3,635,765	c 03	N72-20034 *
US-PATENT-3,591,420	c 03	N71-33409 *	US-PATENT-3,613,370	c 28	N72-22770 *	US-PATENT-3,636,539	c 03	N72-20031 *
US-PATENT-3,591,426	c 17	N71-33408 *	US-PATENT-3,613,454	c 35	N77-27368 *	US-PATENT-3,636,564	c 05	N72-22092 *
US-PATENT-3,591,885	c 15	N72-11390 *	US-PATENT-3,613,457	c 15	N72-22482 *	US-PATENT-3,636,623	c 15	N72-20444 *
US-PATENT-3,591,960	c 15	N72-12409 *	US-PATENT-3,613,794	c 12	N72-21310 *	US-PATENT-3,636,711	c 28	N72-20758 *
US-PATENT-3,591,967	c 28	N72-11709 *	US-PATENT-3,614,228	c 14	N72-21409 *	US-PATENT-3,636,966	c 05	N72-20097 *
US-PATENT-3,592,422	c 15	N72-11391 *	US-PATENT-3,614,327	c 08	N72-22162 *	US-PATENT-3,637,051	c 15	N72-20443 *
US-PATENT-3,592,478	c 09	N72-11224 *	US-PATENT-3,614,343	c 07	N72-21119 *	US-PATENT-3,637,170	c 21	N72-21624 *
US-PATENT-3,592,505	c 05	N72-11085 *	US-PATENT-3,614,431	c 14	N72-21408 *	US-PATENT-3,637,312	c 14	N72-20379 *
US-PATENT-3,592,545	c 14	N72-11364 *	US-PATENT-3,614,475	c 10	N72-16172 *	US-PATENT-3,637,842	c 06	N72-20121 *
US-PATENT-3,592,559	c 02	N72-11018 *	US-PATENT-3,614,557	c 26	N72-21701 *	US-PATENT-3,638,002	c 08	N72-21197 *
US-PATENT-3,592,628	c 15	N72-11387 *	US-PATENT-3,614,587	c 09	N72-22196 *	US-PATENT-3,638,066	c 10	N72-20225 *
US-PATENT-3,592,768	c 15	N72-11389 *	US-PATENT-3,614,648	c 09	N72-21247 *	US-PATENT-3,638,103	c 09	N72-21243 *
US-PATENT-3,593,001	c 15	N72-11392 *	US-PATENT-3,614,772	c 08	N72-22163 *	US-PATENT-3,638,114	c 10	N72-20222 *
US-PATENT-3,593,024	c 24	N72-11595 *	US-PATENT-3,614,898	c 15	N72-21462 *	US-PATENT-3,638,224	c 09	N72-21244 *
US-PATENT-3,593,132	c 09	N72-11225 *	US-PATENT-3,614,899	c 09	N72-22195 *	US-PATENT-3,639,250	c 14	N72-22443 *
US-PATENT-3,593,138	c 07	N72-11149 *	US-PATENT-3,615,021	c 15	N72-22483 *	US-PATENT-3,639,510	c 06	N72-22107 *
US-PATENT-3,593,175	c 10	N72-11256 *	US-PATENT-3,615,241	c 15	N72-21465 *	US-PATENT-3,639,809	c 15	N72-22486 *
US-PATENT-3,593,180	c 07	N72-11150 *	US-PATENT-3,615,465	c 06	N72-21094 *	US-PATENT-3,639,835	c 14	N72-22442 *
US-PATENT-3,593,194	c 16	N72-12440 *	US-PATENT-3,615,853	c 03	N72-22042 *	US-PATENT-3,640,256	c 28	N72-22772 *
US-PATENT-3,594,790	c 07	N72-12080 *	US-PATENT-3,616,338	c 15	N72-21466 *	US-PATENT-3,641,470	c 35	N78-17359 *
US-PATENT-3,594,803	c 09	N72-12136 *	US-PATENT-3,616,528	c 03	N72-22041 *	US-PATENT-3,647,276	c 14	N72-22444 *
US-PATENT-3,596,465	c 28	N72-11708 *	US-PATENT-3,617,804	c 25	N72-24753 *	US-PATENT-3,647,529	c 27	N74-23125 *
US-PATENT-3,596,510	c 14	N72-11363 *	US-PATENT-3,619,896	c 15	N72-22487 *	US-PATENT-3,647,924	c 11	N72-23215 *
US-PATENT-3,596,554	c 15	N72-11385 *	US-PATENT-3,619,924	c 11	N72-22247 *	US-PATENT-3,648,043	c 09	N72-23173 *
US-PATENT-3,596,863	c 15	N72-11386 *	US-PATENT-3,620,018	c 28	N72-22771 *	US-PATENT-3,648,083	c 12	N72-25292 *
US-PATENT-3,597,281	c 03	N72-11062 *	US-PATENT-3,620,069	c 14	N72-22440 *	US-PATENT-3,648,152	c 03	N72-23048 *
US-PATENT-3,598,921	c 08	N72-11171 *	US-PATENT-3,620,076	c 11	N72-22246 *	US-PATENT-3,648,209	c 09	N72-27226 *
US-PATENT-3,599,216	c 07	N72-11148 *	US-PATENT-3,620,083	c 14	N72-22438 *	US-PATENT-3,648,250	c 09	N72-25248 *
US-PATENT-3,599,335	c 08	N72-11172 *	US-PATENT-3,620,095	c 15	N72-21463 *	US-PATENT-3,648,256	c 08	N72-25207 *
US-PATENT-3,599,443	c 05	N72-11084 *	US-PATENT-3,620,585	c 15	N72-22490 *	US-PATENT-3,648,275	c 08	N72-25206 *
US-PATENT-3,599,489	c 14	N72-11365 *	US-PATENT-3,620,595	c 14	N72-22445 *	US-PATENT-3,648,461	c 28	N72-23810 *
US-PATENT-3,600,046	c 15	N72-11388 *	US-PATENT-3,620,606	c 23	N72-22673 *	US-PATENT-3,648,516	c 35	N74-22095 *
US-PATENT-3,600,599	c 33	N78-17296 *	US-PATENT-3,620,718	c 17	N72-22535 *	US-PATENT-3,649,242	c 15	N72-25448 *
US-PATENT-3,602,920	c 11	N72-17183 *	US-PATENT-3,620,784	c 18	N72-23581 *	US-PATENT-3,649,353	c 26	N72-28762 *
US-PATENT-3,602,923	c 05	N72-22093 *	US-PATENT-3,620,791	c 18	N72-22566 *	US-PATENT-3,649,356	c 15	N72-25447 *
US-PATENT-3,602,979	c 15	N72-22492 *	US-PATENT-3,620,846	c 31	N72-22874 *	US-PATENT-3,649,462	c 11	N72-25284 *
US-PATENT-3,602,984	c 26	N72-17820 *	US-PATENT-3,621,130	c 08	N72-22164 *	US-PATENT-3,649,907	c 09	N72-23172 *
US-PATENT-3,603,092	c 28	N72-17843 *	US-PATENT-3,621,193	c 15	N72-23497 *	US-PATENT-3,649,921	c 05	N72-23085 *
US-PATENT-3,603,093	c 28	N72-18766 *	US-PATENT-3,621,194	c 15	N72-22491 *	US-PATENT-3,649,935	c 07	N72-25170 *
US-PATENT-3,603,260	c 33	N72-17947 *	US-PATENT-3,621,228	c 08	N72-22165 *	US-PATENT-3,650,095	c 14	N72-23457 *
US-PATENT-3,603,285	c 25	N75-29192 *	US-PATENT-3,621,277	c 10	N72-22236 *	US-PATENT-3,650,474	c 28	N72-23809 *
US-PATENT-3,603,382	c 33	N72-17948 *	US-PATENT-3,621,285	c 09	N72-22200 *	US-PATENT-3,651,008	c 27	N81-24258 *
US-PATENT-3,603,433	c 15	N72-17450 *	US-PATENT-3,621,287	c 09	N72-22201 *	US-PATENT-3,653,052	c 09	N72-25247 *
US-PATENT-3,603,532	c 30	N72-17873 *	US-PATENT-3,621,290	c 09	N72-22202 *	US-PATENT-3,653,882	c 18	N72-25539 *
US-PATENT-3,603,683	c 14	N72-17326 *	US-PATENT-3,621,294	c 09	N72-23171 *	US-PATENT-3,653,970	c 03	N72-24037 *
US-PATENT-3,603,686	c 16	N72-13437 *	US-PATENT-3,621,330	c 33	N77-21316 *	US-PATENT-3,654,036	c 03	N72-25019 *
US-PATENT-3,603,690	c 14	N72-17323 *	US-PATENT-3,621,362	c 09	N72-22203 *	US-PATENT-3,655,814	c 27	N81-15104 *
US-PATENT-3,603,722	c 07	N72-17109 *	US-PATENT-3,621,372	c 09	N72-25249 *	US-PATENT-3,656,313	c 23	N72-25619 *
US-PATENT-3,603,772	c 08	N72-22166 *	US-PATENT-3,621,406	c 09	N72-33204 *	US-PATENT-3,656,317	c 33	N72-25911 *
US-PATENT-3,603,798	c 09	N72-17152 *	US-PATENT-3,621,407	c 09	N72-21245 *	US-PATENT-3,656,352	c 14	N72-25411 *
US-PATENT-3,603,864	c 09	N72-17154 *	US-PATENT-3,621,565	c 09	N72-22199 *	US-PATENT-3,656,781	c 15	N72-25450 *
US-PATENT-3,603,892	c 09	N72-17155 *	US-PATENT-3,623,030	c 08	N72-21198 *	US-PATENT-3,657,190	c 23	N82-29358 *
US-PATENT-3,603,946	c 09	N72-17153 *	US-PATENT-3,623,094	c 10	N72-22235 *	US-PATENT-3,657,549	c 14	N72-25409 *
US-PATENT-3,603,974	c 14	N72-18411 *	US-PATENT-3,623,107	c 07	N72-21117 *	US-PATENT-3,657,644	c 14	N72-24477 *
US-PATENT-3,603,976	c 08	N72-18184 *	US-PATENT-3,623,114	c 07	N72-22127 *	US-PATENT-3,657,928	c 14	N72-25410 *
US-PATENT-3,605,032	c 10	N72-17172 *	US-PATENT-3,623,359	c 35	N77-27367 *	US-PATENT-3,658,295	c 15	N72-25451 *
US-PATENT-3,605,424	c 15	N72-17453 *	US-PATENT-3,623,360	c 14	N72-21405 *	US-PATENT-3,658,569	c 15	N72-25452 *
US-PATENT-3,605,482	c 14	N72-16282 *	US-PATENT-3,623,361	c 14	N72-21407 *	US-PATENT-3,658,608	c 27	N72-25699 *
US-PATENT-3,605,495	c 14	N72-17327 *	US-PATENT-3,623,394	c 15	N72-22488 *	US-PATENT-3,658,974	c 15	N72-24522 *
US-PATENT-3,605,519	c 14	N72-17324 *	US-PATENT-3,623,828	c 15	N72-22489 *	US-PATENT-3,659,043	c 14	N72-25412 *
US-PATENT-3,606,212	c 31	N72-18859 *	US-PATENT-3,623,861	c 17	N72-22530 *	US-PATENT-3,659,053	c 08	N72-25208 *
US-PATENT-3,606,470	c 46	N74-23068 *	US-PATENT-3,624,496	c 15	N72-21464 *	US-PATENT-3,659,148	c 09	N72-25250 *
US-PATENT-3,606,522	c 23	N72-23695 *	US-PATENT-3,624,598	c 21	N72-22619 *	US-PATENT-3,659,184	c 09	N72-25251 *
US-PATENT-3,606,979	c 15	N72-17454 *	US-PATENT-3,624,650	c 07	N72-21118 *	US-PATENT-3,659,225	c 16	N72-25485 *
US-PATENT-3,607,015	c 06	N72-17093 *	US-PATENT-3,624,659	c 09	N72-21246 *	US-PATENT-3,659,292	c 08	N72-25209 *
US-PATENT-3,607,076	c 06	N72-17094 *	US-PATENT-3,624,839	c 05	N72-20098 *	US-PATENT-3,660,240	c 06	N72-25149 *
US-PATENT-3,607,080	c 06	N72-17095 *	US-PATENT-3,625,018	c 15	N72-22484 *	US-PATENT-3,660,434	c 06	N72-25148 *
US-PATENT-3,607,338	c 18	N72-17532 *	US-PATENT-3,625,084	c 15	N72-22485 *	US-PATENT-3,660,704	c 15	N72-25456 *
US-PATENT-3,607,401	c 03	N72-15986 *	US-PATENT-3,625,766	c 03	N72-20032 *	US-PATENT-3,660,851	c 05	N72-25119 *
US-PATENT-3,607,495	c 15	N72-16330 *	US-PATENT-3,626,114	c 35	N79-16246 *	US-PATENT-3,662,337	c 08	N72-25210 *
US-PATENT-3,608,046	c 15	N72-16329 *	US-PATENT-3,626,189	c 14	N72-20381 *	US-PATENT-3,662,441	c 05	N72-25121 *
US-PATENT-3,608,365	c 15	N72-17452 *	US-PATENT-3,626,218	c 14	N72-22439 *	US-PATENT-3,662,547	c 15	N72-25455 *
US-PATENT-3,608,409	c 14	N72-16283 *	US-PATENT-3,626,298	c 07	N72-20140 *	US-PATENT-3,662,604	c 13	N72-25323 *
US-PATENT-3,608,844	c 15	N72-18477 *	US-PATENT-3,626,308	c 10	N72-20223 *	US-PATENT-3,662,661	c 31	N72-25842 *
US-PATENT-3,609,230	c 09	N72-17156 *	US-PATENT-3,626,828	c 14	N72-20380 *	US-PATENT-3,662,744	c 05	N72-25122 *
US-PATENT-3,609,271	c 09	N72-22204 *	US-PATENT-3,628,113	c 37	N77-27400 *	US-PATENT-3,662,973	c 21	N72-25595 *

US-PATENT-3,663,346	c 18	N72-25541 *	US-PATENT-3,696,833	c 11	N73-12265 *	US-PATENT-3,715,693	c 09	N73-20232 *
US-PATENT-3,663,347	c 18	N72-25540 *	US-PATENT-3,697,021	c 15	N73-12486 *	US-PATENT-3,715,723	c 07	N73-20176 *
US-PATENT-3,663,464	c 06	N72-25147 *	US-PATENT-3,697,630	c 15	N73-12489 *	US-PATENT-3,715,915	c 32	N73-20740 *
US-PATENT-3,663,521	c 06	N72-25152 *	US-PATENT-3,697,705	c 35	N77-21392 *	US-PATENT-3,718,863	c 10	N73-20254 *
US-PATENT-3,663,753	c 14	N72-25414 *	US-PATENT-3,697,733	c 08	N73-12176 *	US-PATENT-3,719,891	c 07	N73-25160 *
US-PATENT-3,663,828	c 09	N72-25262 *	US-PATENT-3,697,950	c 08	N73-12177 *	US-PATENT-3,720,075	c 33	N73-25952 *
US-PATENT-3,663,839	c 09	N72-25260 *	US-PATENT-3,697,968	c 21	N73-13644 *	US-PATENT-3,720,208	c 05	N73-25125 *
US-PATENT-3,663,843	c 09	N72-25255 *	US-PATENT-3,698,385	c 05	N73-13114 *	US-PATENT-3,723,745	c 14	N73-25462 *
US-PATENT-3,663,885	c 09	N72-25257 *	US-PATENT-3,698,412	c 14	N73-13418 *	US-PATENT-3,728,861	c 28	N73-24783 *
US-PATENT-3,663,886	c 09	N72-25258 *	US-PATENT-3,698,659	c 11	N73-13257 *	US-PATENT-3,729,068	c 15	N73-25512 *
US-PATENT-3,663,929	c 09	N72-25256 *	US-PATENT-3,698,667	c 02	N73-13008 *	US-PATENT-3,729,129	c 08	N73-25206 *
US-PATENT-3,663,938	c 03	N72-25020 *	US-PATENT-3,698,848	c 15	N73-13464 *	US-PATENT-3,729,260	c 14	N73-25463 *
US-PATENT-3,663,940	c 09	N72-25252 *	US-PATENT-3,699,511	c 21	N73-13643 *	US-PATENT-3,729,343	c 14	N73-24472 *
US-PATENT-3,663,941	c 09	N72-25253 *	US-PATENT-3,699,645	c 14	N73-13417 *	US-PATENT-3,729,676	c 14	N73-24473 *
US-PATENT-3,663,944	c 09	N72-25254 *	US-PATENT-3,699,799	c 15	N73-13463 *	US-PATENT-3,729,736	c 07	N73-25161 *
US-PATENT-3,664,185	c 15	N72-26371 *	US-PATENT-3,699,807	c 14	N73-13416 *	US-PATENT-3,729,743	c 07	N73-24176 *
US-PATENT-3,664,874	c 09	N72-25259 *	US-PATENT-3,699,811	c 14	N73-13415 *	US-PATENT-3,729,935	c 28	N73-24784 *
US-PATENT-3,665,064	c 05	N72-25120 *	US-PATENT-3,700,005	c 15	N73-13462 *	US-PATENT-3,730,287	c 11	N73-26238 *
US-PATENT-3,665,307	c 15	N72-25457 *	US-PATENT-3,700,192	c 31	N73-13898 *	US-PATENT-3,730,891	c 18	N73-26572 *
US-PATENT-3,665,313	c 07	N72-25173 *	US-PATENT-3,700,193	c 30	N73-12884 *	US-PATENT-3,731,528	c 12	N73-25262 *
US-PATENT-3,665,417	c 07	N72-25172 *	US-PATENT-3,700,291	c 15	N73-12488 *	US-PATENT-3,731,531	c 14	N73-25460 *
US-PATENT-3,665,467	c 14	N72-28437 *	US-PATENT-3,700,334	c 14	N73-12446 *	US-PATENT-3,732,040	c 15	N73-24513 *
US-PATENT-3,665,481	c 07	N72-25174 *	US-PATENT-3,700,503	c 14	N73-12447 *	US-PATENT-3,732,158	c 17	N73-24569 *
US-PATENT-3,665,589	c 09	N72-25261 *	US-PATENT-3,700,538	c 18	N73-12604 *	US-PATENT-3,732,397	c 33	N74-14935 *
US-PATENT-3,665,669	c 15	N72-25454 *	US-PATENT-3,700,575	c 15	N73-12487 *	US-PATENT-3,732,405	c 10	N73-25240 *
US-PATENT-3,665,670	c 11	N72-25287 *	US-PATENT-3,700,603	c 14	N73-14428 *	US-PATENT-3,732,409	c 08	N73-26175 *
US-PATENT-3,665,750	c 33	N72-25913 *	US-PATENT-3,700,812	c 10	N73-12244 *	US-PATENT-3,732,567	c 14	N73-25461 *
US-PATENT-3,665,751	c 32	N72-25877 *	US-PATENT-3,700,868	c 09	N73-13209 *	US-PATENT-3,733,350	c 06	N73-26100 *
US-PATENT-3,665,758	c 11	N72-25288 *	US-PATENT-3,700,869	c 08	N73-12175 *	US-PATENT-3,733,424	c 32	N73-26910 *
US-PATENT-3,666,051	c 15	N72-25453 *	US-PATENT-3,700,893	c 14	N73-12444 *	US-PATENT-3,733,463	c 14	N73-26430 *
US-PATENT-3,666,120	c 03	N72-25021 *	US-PATENT-3,700,897	c 14	N73-12445 *	US-PATENT-3,734,432	c 02	N73-26004 *
US-PATENT-3,666,566	c 03	N72-26031 *	US-PATENT-3,700,961	c 23	N73-13660 *	US-PATENT-3,735,206	c 10	N73-25243 *
US-PATENT-3,666,631	c 14	N72-25413 *	US-PATENT-3,701,631	c 17	N73-12547 *	US-PATENT-3,735,591	c 25	N73-25760 *
US-PATENT-3,666,718	c 06	N72-25151 *	US-PATENT-3,701,894	c 07	N73-13149 *	US-PATENT-3,736,453	c 33	N77-22386 *
US-PATENT-3,666,741	c 06	N72-25150 *	US-PATENT-3,702,463	c 08	N73-13187 *	US-PATENT-3,736,607	c 02	N73-26006 *
US-PATENT-3,666,942	c 06	N72-25146 *	US-PATENT-3,702,520	c 32	N73-13921 *	US-PATENT-3,736,764	c 05	N73-26071 *
US-PATENT-3,667,010	c 26	N72-25679 *	US-PATENT-3,702,532	c 15	N73-13467 *	US-PATENT-3,736,849	c 14	N73-26431 *
US-PATENT-3,667,039	c 26	N72-25680 *	US-PATENT-3,702,536	c 28	N73-13773 *	US-PATENT-3,736,938	c 05	N73-27062 *
US-PATENT-3,667,044	c 07	N72-25171 *	US-PATENT-3,702,575	c 15	N73-13466 *	US-PATENT-3,736,956	c 15	N73-26472 *
US-PATENT-3,668,956	c 15	N72-27485 *	US-PATENT-3,702,688	c 31	N73-14854 *	US-PATENT-3,737,117	c 31	N73-26876 *
US-PATENT-3,669,110	c 05	N72-27103 *	US-PATENT-3,702,735	c 23	N73-13661 *	US-PATENT-3,737,118	c 15	N73-25513 *
US-PATENT-3,669,393	c 15	N72-27484 *	US-PATENT-3,702,762	c 06	N73-13129 *	US-PATENT-3,737,121	c 02	N73-26005 *
US-PATENT-3,670,097	c 23	N72-27228 *	US-PATENT-3,702,775	c 06	N73-13128 *	US-PATENT-3,737,181	c 33	N73-26958 *
US-PATENT-3,670,168	c 14	N72-27409 *	US-PATENT-3,702,791	c 15	N73-13465 *	US-PATENT-3,737,217	c 05	N73-26072 *
US-PATENT-3,670,202	c 14	N72-27411 *	US-PATENT-3,702,841	c 18	N73-13562 *	US-PATENT-3,737,231	c 07	N73-26119 *
US-PATENT-3,670,241	c 14	N72-27408 *	US-PATENT-3,702,898	c 10	N73-13235 *	US-PATENT-3,737,237	c 26	N73-26751 *
US-PATENT-3,670,290	c 09	N72-28225 *	US-PATENT-3,702,933	c 23	N73-13662 *	US-PATENT-3,737,639	c 10	N73-26230 *
US-PATENT-3,670,559	c 33	N72-27959 *	US-PATENT-3,702,951	c 09	N73-13208 *	US-PATENT-3,737,676	c 10	N73-26229 *
US-PATENT-3,670,563	c 14	N72-27412 *	US-PATENT-3,702,972	c 16	N73-13489 *	US-PATENT-3,737,757	c 10	N73-26228 *
US-PATENT-3,670,564	c 11	N72-27262 *	US-PATENT-3,702,979	c 14	N73-13420 *	US-PATENT-3,737,762	c 14	N73-26486 *
US-PATENT-3,670,890	c 05	N72-27102 *	US-PATENT-3,704,284	c 74	N81-19898 *	US-PATENT-3,737,776	c 07	N73-26118 *
US-PATENT-3,671,105	c 26	N72-27784 *	US-PATENT-3,704,659	c 14	N73-14427 *	US-PATENT-3,737,781	c 10	N73-25241 *
US-PATENT-3,671,329	c 14	N72-27410 *	US-PATENT-3,705,255	c 15	N73-14469 *	US-PATENT-3,737,815	c 09	N73-26195 *
US-PATENT-3,671,497	c 06	N72-27144 *	US-PATENT-3,705,288	c 15	N73-14468 *	US-PATENT-3,737,824	c 26	N73-26752 *
US-PATENT-3,671,798	c 10	N72-27246 *	US-PATENT-3,705,316	c 09	N73-14214 *	US-PATENT-3,737,905	c 14	N73-26432 *
US-PATENT-3,672,999	c 03	N72-27053 *	US-PATENT-3,705,406	c 07	N73-14130 *	US-PATENT-3,737,912	c 07	N73-26117 *
US-PATENT-3,673,424	c 09	N72-27227 *	US-PATENT-3,706,221	c 14	N73-14429 *	US-PATENT-3,739,646	c 04	N76-26175 *
US-PATENT-3,673,440	c 09	N72-27228 *	US-PATENT-3,706,230	c 31	N73-14855 *	US-PATENT-3,740,671	c 10	N73-27171 *
US-PATENT-3,675,332	c 14	N72-28436 *	US-PATENT-3,706,281	c 31	N73-14853 *	US-PATENT-3,740,725	c 08	N73-26176 *
US-PATENT-3,675,376	c 15	N72-28496 *	US-PATENT-3,706,583	c 18	N73-14584 *	US-PATENT-3,741,001	c 14	N73-27376 *
US-PATENT-3,675,712	c 03	N72-28025 *	US-PATENT-3,706,970	c 21	N73-14692 *	US-PATENT-3,742,316	c 09	N73-27150 *
US-PATENT-3,675,910	c 17	N72-28535 *	US-PATENT-3,708,359	c 27	N73-16764 *	US-PATENT-3,744,128	c 09	N73-28083 *
US-PATENT-3,675,935	c 15	N72-29488 *	US-PATENT-3,708,419	c 33	N73-16918 *	US-PATENT-3,744,148	c 14	N73-28489 *
US-PATENT-3,676,084	c 17	N72-28536 *	US-PATENT-3,708,671	c 14	N73-16483 *	US-PATENT-3,744,247	c 28	N73-27699 *
US-PATENT-3,676,674	c 14	N72-29464 *	US-PATENT-3,708,674	c 14	N73-16484 *	US-PATENT-3,744,294	c 14	N73-27379 *
US-PATENT-3,676,754	c 26	N72-28761 *	US-PATENT-3,709,663	c 06	N73-16106 *	US-PATENT-3,744,305	c 12	N73-28144 *
US-PATENT-3,676,772	c 10	N72-28240 *	US-PATENT-3,710,122	c 16	N73-16536 *	US-PATENT-3,744,320	c 14	N73-28487 *
US-PATENT-3,676,787	c 16	N72-28521 *	US-PATENT-3,710,257	c 07	N73-16121 *	US-PATENT-3,744,480	c 05	N73-27941 *
US-PATENT-3,676,809	c 09	N72-29172 *	US-PATENT-3,710,261	c 10	N73-16205 *	US-PATENT-3,744,510	c 15	N73-27406 *
US-PATENT-3,678,191	c 10	N72-31273 *	US-PATENT-3,710,329	c 10	N73-16206 *	US-PATENT-3,744,738	c 14	N73-27378 *
US-PATENT-3,678,654	c 06	N72-31140 *	US-PATENT-3,711,042	c 02	N73-19004 *	US-PATENT-3,744,739	c 15	N77-10112 *
US-PATENT-3,678,685	c 21	N72-31637 *	US-PATENT-3,711,701	c 74	N77-21941 *	US-PATENT-3,744,794	c 14	N73-27377 *
US-PATENT-3,678,771	c 37	N74-23070 *	US-PATENT-3,712,120	c 14	N73-19421 *	US-PATENT-3,744,912	c 16	N73-30476 *
US-PATENT-3,679,360	c 04	N72-33072 *	US-PATENT-3,712,121	c 14	N73-19420 *	US-PATENT-3,744,913	c 14	N73-28490 *
US-PATENT-3,679,899	c 06	N72-31141 *	US-PATENT-3,712,132	c 14	N73-20478 *	US-PATENT-3,744,972	c 17	N73-27446 *
US-PATENT-3,680,142	c 09	N72-31235 *	US-PATENT-3,712,195	c 14	N73-19419 *	US-PATENT-3,745,082	c 18	N73-30532 *
US-PATENT-3,680,144	c 07	N72-32169 *	US-PATENT-3,712,591	c 15	N73-19458 *	US-PATENT-3,745,089	c 06	N73-27086 *
US-PATENT-3,680,830	c 15	N72-31483 *	US-PATENT-3,713,163	c 09	N73-19234 *	US-PATENT-3,745,090	c 04	N73-27052 *
US-PATENT-3,681,581	c 08	N72-31226 *	US-PATENT-3,713,290	c 28	N73-19793 *	US-PATENT-3,745,149	c 06	N73-27980 *
US-PATENT-3,686,542	c 14	N72-31446 *	US-PATENT-3,713,480	c 05	N73-20137 *	US-PATENT-3,745,255	c 07	N73-28012 *
US-PATENT-3,690,291	c 15	N72-32487 *	US-PATENT-3,713,987	c 15	N73-20514 *	US-PATENT-3,745,300	c 15	N73-28515 *
US-PATENT-3,692,533	c 05	N72-33096 *	US-PATENT-3,714,332	c 15	N73-19457 *	US-PATENT-3,745,352	c 08	N73-30135 *
US-PATENT-3,693,002	c 25	N72-32688 *	US-PATENT-3,714,405	c 10	N73-20253 *	US-PATENT-3,745,357	c 14	N73-28488 *
US-PATENT-3,693,105	c 10	N72-33230 *	US-PATENT-3,714,432	c 14	N73-20475 *	US-PATENT-3,745,410	c 09	N73-30181 *
US-PATENT-3,693,346	c 15	N72-33477 *	US-PATENT-3,714,526	c 09	N73-19235 *	US-PATENT-3,745,475	c 14	N73-30386 *
US-PATENT-3,693,418	c 14	N72-33377 *	US-PATENT-3,714,588	c 09	N73-20231 *	US-PATENT-3,745,739	c 15	N73-27405 *
US-PATENT-3,694,041	c 15	N72-33476 *	US-PATENT-3,714,624	c 14	N73-20474 *	US-PATENT-3,745,816	c 33	N73-27796 *
US-PATENT-3,694,094	c 14	N72-32452 *	US-PATENT-3,714,645	c 08	N73-20217 *	US-PATENT-3,746,998	c 07	N73-30113 *
US-PATENT-3,694,313	c 24	N72-33681 *	US-PATENT-3,714,811	c 14	N73-20476 *	US-PATENT-3,747,111	c 07	N73-28013 *
US-PATENT-3,694,581	c 08	N72-33172 *	US-PATENT-3,714,833	c 11	N73-20267 *	US-PATENT-3,748,722	c 15	N73-33383 *
US-PATENT-3,694,655	c 25	N72-33696 *	US-PATENT-3,715,092	c 03	N73-20039 *	US-PATENT-3,748,853	c 23	N73-30665 *
US-PATENT-3,694,700	c 09	N72-33205 *	US-PATENT-3,715,152	c 23	N73-20741 *	US-PATENT-3,748,905	c 14	N73-30395 *
US-PATENT-3,694,753	c 07	N72-33146 *	US-PATENT-3,715,590	c 14	N73-20477 *	US-PATENT-3,749,123	c 15	N73-30459 *
US-PATENT-3,694,771	c 09	N73-15235 *	US-PATENT-3,715,600	c 03	N73-20040 *	US-PATENT-3,749,156	c 31	N73-30829 *
US-PATENT-3,695,101	c 11	N73-12264 *	US-PATENT-3,715,660	c 07	N73-20175 *	US-PATENT-3,749,205	c 15	N73-30460 *
US-PATENT-3,696,418	c 09	N73-12211 *	US-PATENT-3,715,663	c 07	N73-20174 *	US-PATENT-3,749,332	c 31	N73-32750 *

US-PATENT-3,749,362	c 15	N73-30457 *	US-PATENT-3,777,490	c 20	N74-13502 *	US-PATENT-3,806,802	c 35	N74-21017 *
US-PATENT-3,749,831	c 07	N73-30115 *	US-PATENT-3,777,546	c 35	N74-13132 *	US-PATENT-3,806,815	c 32	N74-20811 *
US-PATENT-3,749,911	c 14	N73-30389 *	US-PATENT-3,777,552	c 38	N74-15130 *	US-PATENT-3,806,816	c 32	N74-20810 *
US-PATENT-3,750,016	c 14	N73-30388 *	US-PATENT-3,777,605	c 39	N74-13131 *	US-PATENT-3,806,831	c 33	N74-20862 *
US-PATENT-3,750,035	c 33	N77-13315 *	US-PATENT-3,777,811	c 34	N78-17336 *	US-PATENT-3,806,834	c 36	N76-18427 *
US-PATENT-3,750,067	c 09	N73-30185 *	US-PATENT-3,777,942	c 54	N74-12779 *	US-PATENT-3,806,835	c 33	N74-20859 *
US-PATENT-3,750,131	c 10	N73-30205 *	US-PATENT-3,778,685	c 33	N74-12951 *	US-PATENT-3,806,932	c 33	N74-20860 *
US-PATENT-3,750,168	c 21	N73-30641 *	US-PATENT-3,778,786	c 60	N74-12888 *	US-PATENT-3,807,384	c 34	N74-23039 *
US-PATENT-3,750,479	c 05	N73-30078 *	US-PATENT-3,778,791	c 36	N74-13205 *	US-PATENT-3,807,656	c 18	N74-22136 *
US-PATENT-3,751,123	c 15	N73-30458 *	US-PATENT-3,779,788	c 70	N74-13436 *	US-PATENT-3,808,464	c 33	N74-22814 *
US-PATENT-3,751,727	c 05	N73-32012 *	US-PATENT-3,780,151	c 31	N74-14133 *	US-PATENT-3,808,511	c 33	N74-22864 *
US-PATENT-3,751,733	c 05	N73-32013 *	US-PATENT-3,780,424	c 44	N74-14784 *	US-PATENT-3,808,517	c 33	N74-22885 *
US-PATENT-3,751,913	c 06	N73-30097 *	US-PATENT-3,780,563	c 35	N74-15092 *	US-PATENT-3,809,481	c 35	N74-23040 *
US-PATENT-3,751,980	c 14	N73-32326 *	US-PATENT-3,780,827	c 07	N74-15453 *	US-PATENT-3,809,601	c 37	N74-23064 *
US-PATENT-3,752,556	c 35	N74-17153 *	US-PATENT-3,780,966	c 19	N74-15089 *	US-PATENT-3,809,800	c 33	N74-22865 *
US-PATENT-3,752,559	c 14	N73-30393 *	US-PATENT-3,781,111	c 36	N74-15145 *	US-PATENT-3,809,871	c 52	N74-22771 *
US-PATENT-3,752,564	c 23	N73-30666 *	US-PATENT-3,781,549	c 35	N74-15090 *	US-PATENT-3,810,829	c 31	N74-23065 *
US-PATENT-3,752,665	c 18	N73-32437 *	US-PATENT-3,781,562	c 35	N74-15091 *	US-PATENT-3,811,044	c 34	N74-23066 *
US-PATENT-3,752,847	c 06	N73-30098 *	US-PATENT-3,781,902	c 35	N74-15831 *	US-PATENT-3,811,094	c 33	N74-21851 *
US-PATENT-3,752,986	c 14	N73-30392 *	US-PATENT-3,781,933	c 54	N74-14845 *	US-PATENT-3,811,429	c 52	N74-27566 *
US-PATENT-3,752,993	c 21	N73-30640 *	US-PATENT-3,781,958	c 37	N74-15128 *	US-PATENT-3,811,901	c 27	N82-29454 *
US-PATENT-3,752,996	c 91	N74-13130 *	US-PATENT-3,782,177	c 38	N74-15395 *	US-PATENT-3,812,358	c 35	N74-26949 *
US-PATENT-3,753,148	c 08	N73-32111 *	US-PATENT-3,782,181	c 34	N74-15652 *	US-PATENT-3,812,783	c 28	N74-27425 *
US-PATENT-3,754,236	c 09	N73-32081 *	US-PATENT-3,782,205	c 35	N74-15094 *	US-PATENT-3,812,924	c 35	N74-26945 *
US-PATENT-3,754,263	c 09	N73-32110 *	US-PATENT-3,782,334	c 51	N74-15778 *	US-PATENT-3,812,936	c 37	N74-26976 *
US-PATENT-3,754,976	c 15	N73-32360 *	US-PATENT-3,782,698	c 35	N74-15093 *	US-PATENT-3,813,183	c 37	N74-25968 *
US-PATENT-3,755,265	c 06	N73-33076 *	US-PATENT-3,782,699	c 35	N74-15126 *	US-PATENT-3,813,875	c 15	N74-27360 *
US-PATENT-3,755,283	c 06	N73-32029 *	US-PATENT-3,782,737	c 37	N74-15125 *	US-PATENT-3,813,937	c 34	N74-27859 *
US-PATENT-3,755,686	c 03	N73-31988 *	US-PATENT-3,782,825	c 35	N74-15146 *	US-PATENT-3,814,083	c 52	N74-26626 *
US-PATENT-3,756,920	c 05	N73-32011 *	US-PATENT-3,782,835	c 74	N74-15095 *	US-PATENT-3,814,350	c 18	N74-27397 *
US-PATENT-3,757,183	c 09	N73-32107 *	US-PATENT-3,782,904	c 35	N74-15127 *	US-PATENT-3,814,645	c 24	N74-30001 *
US-PATENT-3,757,476	c 31	N73-32749 *	US-PATENT-3,783,250	c 62	N74-14920 *	US-PATENT-3,814,653	c 24	N74-27035 *
US-PATENT-3,757,568	c 14	N73-32323 *	US-PATENT-3,783,354	c 33	N74-14956 *	US-PATENT-3,814,678	c 25	N74-26948 *
US-PATENT-3,757,659	c 14	N73-32322 *	US-PATENT-3,783,399	c 33	N74-14939 *	US-PATENT-3,814,939	c 25	N74-26947 *
US-PATENT-3,758,112	c 05	N73-32014 *	US-PATENT-3,783,443	c 35	N74-16135 *	US-PATENT-3,815,048	c 33	N74-26732 *
US-PATENT-3,758,718	c 10	N73-32143 *	US-PATENT-3,784,499	c 27	N74-17283 *	US-PATENT-3,815,109	c 52	N74-26625 *
US-PATENT-3,758,741	c 15	N73-32358 *	US-PATENT-3,785,836	c 27	N82-29452 *	US-PATENT-3,815,205	c 33	N74-26977 *
US-PATENT-3,758,781	c 14	N73-32317 *	US-PATENT-3,787,959	c 37	N74-18128 *	US-PATENT-3,815,969	c 35	N74-26946 *
US-PATENT-3,758,877	c 16	N73-32391 *	US-PATENT-3,788,163	c 37	N74-18127 *	US-PATENT-3,816,657	c 32	N74-26654 *
US-PATENT-3,759,152	c 14	N73-32319 *	US-PATENT-3,789,654	c 25	N74-18551 *	US-PATENT-3,816,785	c 73	N74-26767 *
US-PATENT-3,759,249	c 05	N73-32015 *	US-PATENT-3,789,920	c 34	N74-18552 *	US-PATENT-3,817,082	c 34	N74-27730 *
US-PATENT-3,759,443	c 28	N73-32606 *	US-PATENT-3,789,947	c 37	N74-18125 *	US-PATENT-3,817,084	c 31	N74-27900 *
US-PATENT-3,759,588	c 15	N73-32359 *	US-PATENT-3,790,037	c 54	N74-17853 *	US-PATENT-3,817,622	c 75	N74-30156 *
US-PATENT-3,759,672	c 14	N73-32320 *	US-PATENT-3,790,347	c 37	N74-18123 *	US-PATENT-3,817,627	c 35	N74-27860 *
US-PATENT-3,759,746	c 09	N73-32108 *	US-PATENT-3,790,409	c 44	N74-19693 *	US-PATENT-3,818,325	c 44	N74-27519 *
US-PATENT-3,759,747	c 44	N74-19692 *	US-PATENT-3,790,432	c 37	N74-18126 *	US-PATENT-3,818,346	c 33	N74-27705 *
US-PATENT-3,759,787	c 22	N73-32528 *	US-PATENT-3,790,650	c 31	N74-18124 *	US-PATENT-3,818,767	c 35	N74-28097 *
US-PATENT-3,760,239	c 09	N73-32112 *	US-PATENT-3,790,795	c 35	N74-18088 *	US-PATENT-3,818,775	c 37	N74-27901 *
US-PATENT-3,760,248	c 10	N73-32145 *	US-PATENT-3,790,906	c 33	N74-17927 *	US-PATENT-3,818,814	c 31	N74-27902 *
US-PATENT-3,760,257	c 09	N73-32109 *	US-PATENT-3,791,207	c 09	N74-17955 *	US-PATENT-3,819,299	c 37	N74-27904 *
US-PATENT-3,760,268	c 14	N73-32318 *	US-PATENT-3,792,399	c 33	N74-17928 *	US-PATENT-3,819,419	c 34	N74-27861 *
US-PATENT-3,760,394	c 10	N73-32144 *	US-PATENT-3,793,109	c 31	N74-18089 *	US-PATENT-3,819,440	c 32	N74-27612 *
US-PATENT-3,762,884	c 17	N73-32414 *	US-PATENT-3,795,134	c 09	N74-19528 *	US-PATENT-3,819,550	c 27	N74-27037 *
US-PATENT-3,762,918	c 17	N73-32415 *	US-PATENT-3,795,448	c 72	N74-19310 *	US-PATENT-3,820,095	c 33	N74-27862 *
US-PATENT-3,763,204	c 06	N73-32030 *	US-PATENT-3,795,840	c 33	N74-17929 *	US-PATENT-3,820,286	c 37	N74-27905 *
US-PATENT-3,763,552	c 26	N73-32571 *	US-PATENT-3,795,858	c 35	N74-18090 *	US-PATENT-3,820,388	c 35	N74-27865 *
US-PATENT-3,763,691	c 14	N73-32327 *	US-PATENT-3,795,862	c 33	N74-17930 *	US-PATENT-3,820,529	c 52	N74-27864 *
US-PATENT-3,763,708	c 35	N74-18323 *	US-PATENT-3,795,900	c 35	N74-17885 *	US-PATENT-3,820,630	c 07	N74-27490 *
US-PATENT-3,763,740	c 11	N73-32152 *	US-PATENT-3,795,910	c 44	N74-19870 *	US-PATENT-3,820,741	c 37	N74-27903 *
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US-PATENT-3,874,677	c 37	N75-21631 *	US-PATENT-3,914,950	c 31	N76-14284 *	US-PATENT-3,952,976	c 37	N76-22540 *
US-PATENT-3,875,332	c 32	N75-21486 *	US-PATENT-3,914,969	c 37	N76-14461 *	US-PATENT-3,952,980	c 19	N76-22284 *
US-PATENT-3,875,394	c 33	N75-26243 *	US-PATENT-3,914,991	c 35	N76-14430 *	US-PATENT-3,952,998	c 20	N76-22296 *
US-PATENT-3,875,404	c 35	N75-23910 *	US-PATENT-3,914,997	c 35	N76-14429 *	US-PATENT-3,953,038	c 37	N76-22541 *
US-PATENT-3,875,435	c 20	N75-24837 *	US-PATENT-3,915,012	c 54	N76-14804 *	US-PATENT-3,953,343	c 24	N76-22309 *
US-PATENT-3,875,500	c 35	N75-21582 *	US-PATENT-3,915,148	c 44	N76-14602 *	US-PATENT-3,953,646	c 27	N76-22377 *
US-PATENT-3,875,584	c 32	N75-21485 *	US-PATENT-3,915,416	c 15	N76-14158 *	US-PATENT-3,953,674	c 17	N76-22245 *
US-PATENT-3,877,833	c 37	N75-25186 *	US-PATENT-3,915,482	c 37	N76-14460 *	US-PATENT-3,953,734	c 25	N76-22323 *
US-PATENT-3,878,464	c 32	N75-24981 *	US-PATENT-3,915,572	c 36	N76-14447 *	US-PATENT-3,953,792	c 35	N76-22509 *
US-PATENT-3,881,132	c 33	N77-21315 *	US-PATENT-3,916,060	c 27	N76-15310 *	US-PATENT-3,955,034	c 27	N76-23426 *
US-PATENT-3,882,417	c 36	N78-17366 *	US-PATENT-3,916,084	c 33	N76-14371 *	US-PATENT-3,955,941	c 44	N76-29700 *
US-PATENT-3,882,530	c 76	N75-25730 *	US-PATENT-3,916,187	c 35	N76-15431 *	US-PATENT-3,956,032	c 76	N76-25049 *

US-PATENT-3,956,050	c 37	N76-24575 *	US-PATENT-3,996,064	c 44	N77-14581 *	US-PATENT-4,035,065	c 74	N77-28933 *
US-PATENT-3,956,233	c 27	N76-24405 *	US-PATENT-3,996,067	c 44	N77-14580 *	US-PATENT-4,038,705	c 54	N77-30749 *
US-PATENT-3,956,833	c 09	N76-24280 *	US-PATENT-3,996,070	c 35	N77-14409 *	US-PATENT-4,039,489	c 27	N77-31308 *
US-PATENT-3,956,919	c 35	N76-24523 *	US-PATENT-3,996,455	c 60	N77-14751 *	US-PATENT-4,039,946	c 35	N77-30436 *
US-PATENT-3,956,932	c 35	N76-24524 *	US-PATENT-3,996,462	c 33	N77-14335 *	US-PATENT-4,039,000	c 34	N77-30399 *
US-PATENT-3,957,030	c 44	N76-23675 *	US-PATENT-3,996,464	c 35	N77-14406 *	US-PATENT-4,039,347	c 27	N77-30237 *
US-PATENT-3,957,037	c 35	N76-24525 *	US-PATENT-3,996,468	c 35	N77-14408 *	US-PATENT-4,039,754	c 32	N77-30309 *
US-PATENT-3,957,044	c 54	N76-24900 *	US-PATENT-3,996,471	c 52	N77-14737 *	US-PATENT-4,039,925	c 33	N77-30365 *
US-PATENT-3,957,104	c 37	N76-23570 *	US-PATENT-3,996,506	c 33	N77-14333 *	US-PATENT-4,040,041	c 33	N77-31404 *
US-PATENT-3,957,675	c 24	N76-24363 *	US-PATENT-3,996,532	c 32	N77-14292 *	US-PATENT-4,040,750	c 35	N77-31465 *
US-PATENT-3,958,188	c 36	N76-24553 *	US-PATENT-3,997,848	c 33	N77-14334 *	US-PATENT-4,040,867	c 44	N77-31601 *
US-PATENT-3,958,238	c 60	N76-23850 *	US-PATENT-3,999,886	c 05	N77-17029 *	US-PATENT-4,040,940	c 37	N80-14397 *
US-PATENT-3,958,553	c 44	N76-24696 *	US-PATENT-4,049,930	c 33	N78-10375 *	US-PATENT-4,041,233	c 27	N77-30236 *
US-PATENT-3,961,997	c 44	N76-28635 *	US-PATENT-4,356,157	c 25	N83-33977 *	US-PATENT-4,041,391	c 32	N77-30308 *
US-PATENT-3,964,306	c 34	N76-27517 *	US-PATENT-4,359,503	c 24	N83-33950 *	US-PATENT-4,041,697	c 37	N78-10467 *
US-PATENT-3,964,319	c 07	N76-27232 *	US-PATENT-4,000,682	c 20	N77-17143 *	US-PATENT-4,041,910	c 37	N77-31497 *
US-PATENT-3,964,813	c 37	N76-27567 *	US-PATENT-4,000,929	c 37	N77-17464 *	US-PATENT-4,042,926	c 32	N77-31350 *
US-PATENT-3,964,902	c 34	N76-27515 *	US-PATENT-4,001,552	c 38	N77-17495 *	US-PATENT-4,043,668	c 35	N84-33766 *
US-PATENT-3,964,928	c 44	N76-27664 *	US-PATENT-4,001,602	c 33	N77-17354 *	US-PATENT-4,043,674	c 36	N77-32478 *
US-PATENT-3,965,096	c 27	N76-32315 *	US-PATENT-4,003,004	c 33	N77-17351 *	US-PATENT-4,044,753	c 44	N77-32582 *
US-PATENT-3,965,354	c 33	N76-27473 *	US-PATENT-4,003,084	c 35	N77-17426 *	US-PATENT-4,044,821	c 44	N77-32581 *
US-PATENT-3,965,475	c 33	N76-27472 *	US-PATENT-4,003,257	c 23	N77-17161 *	US-PATENT-4,045,063	c 37	N77-32499 *
US-PATENT-3,966,499	c 44	N76-31666 *	US-PATENT-4,004,292	c 74	N77-18893 *	US-PATENT-4,045,149	c 07	N77-32148 *
US-PATENT-3,966,547	c 25	N76-27383 *	US-PATENT-4,005,574	c 07	N77-17059 *	US-PATENT-4,045,247	c 35	N77-32583 *
US-PATENT-3,967,091	c 37	N76-27568 *	US-PATENT-4,006,631	c 04	N77-19056 *	US-PATENT-4,045,255	c 26	N77-32279 *
US-PATENT-3,971,230	c 37	N76-29590 *	US-PATENT-4,006,999	c 24	N77-19170 *	US-PATENT-4,045,315	c 44	N77-32580 *
US-PATENT-3,971,256	c 91	N76-30131 *	US-PATENT-4,007,430	c 36	N77-19416 *	US-PATENT-4,045,359	c 25	N77-32255 *
US-PATENT-3,971,362	c 52	N76-29894 *	US-PATENT-4,007,434	c 32	N77-18307 *	US-PATENT-4,045,728	c 35	N77-32455 *
US-PATENT-3,971,363	c 52	N76-29895 *	US-PATENT-4,007,601	c 34	N77-19353 *	US-PATENT-4,045,792	c 60	N77-32731 *
US-PATENT-3,971,364	c 52	N76-29896 *	US-PATENT-4,007,623	c 35	N77-18417 *	US-PATENT-4,045,795	c 32	N77-32342 *
US-PATENT-3,971,535	c 05	N76-29217 *	US-PATENT-4,007,891	c 07	N77-18154 *	US-PATENT-4,046,012	c 35	N77-32456 *
US-PATENT-3,971,602	c 37	N76-29588 *	US-PATENT-4,008,348	c 34	N77-18382 *	US-PATENT-4,046,190	c 34	N77-32413 *
US-PATENT-3,971,697	c 25	N76-29379 *	US-PATENT-4,008,407	c 73	N77-18891 *	US-PATENT-4,046,262	c 54	N77-32721 *
US-PATENT-3,971,703	c 51	N76-29891 *	US-PATENT-4,010,455	c 37	N77-19458 *	US-PATENT-4,046,434	c 37	N77-32500 *
US-PATENT-3,971,847	c 44	N76-29704 *	US-PATENT-4,010,455	c 37	N78-31426 *	US-PATENT-4,046,435	c 37	N77-32501 *
US-PATENT-3,971,915	c 35	N76-29552 *	US-PATENT-4,011,719	c 20	N77-20162 *	US-PATENT-4,046,462	c 44	N77-32583 *
US-PATENT-3,971,930	c 74	N76-30053 *	US-PATENT-4,011,756	c 35	N77-20400 *	US-PATENT-4,046,529	c 54	N77-32722 *
US-PATENT-3,971,940	c 35	N76-29551 *	US-PATENT-4,011,854	c 35	N77-20401 *	US-PATENT-4,046,560	c 26	N77-32280 *
US-PATENT-3,972,008	c 36	N76-29575 *	US-PATENT-4,012,018	c 35	N77-20399 *	US-PATENT-4,046,617	c 76	N77-32919 *
US-PATENT-3,972,038	c 17	N76-29347 *	US-PATENT-4,012,123	c 74	N77-20882 *	US-PATENT-4,046,619	c 27	N77-32308 *
US-PATENT-3,972,651	c 44	N76-29701 *	US-PATENT-4,012,237	c 26	N77-20201 *	US-PATENT-4,047,840	c 37	N78-10468 *
US-PATENT-3,972,727	c 44	N76-29699 *	US-PATENT-4,012,696	c 32	N77-20289 *	US-PATENT-4,051,558	c 52	N78-10686 *
US-PATENT-3,976,997	c 62	N76-31946 *	US-PATENT-4,014,745	c 51	N77-22794 *	US-PATENT-4,051,834	c 44	N78-10554 *
US-PATENT-3,977,147	c 39	N76-31562 *	US-PATENT-4,014,798	c 25	N81-17187 *	US-PATENT-4,051,877	c 35	N78-10428 *
US-PATENT-3,977,197	c 44	N76-31667 *	US-PATENT-4,017,959	c 37	N77-23482 *	US-PATENT-4,052,144	c 25	N78-10224 *
US-PATENT-3,977,231	c 35	N76-31489 *	US-PATENT-4,018,080	c 35	N77-22450 *	US-PATENT-4,052,181	c 71	N78-10837 *
US-PATENT-3,977,771	c 74	N76-31998 *	US-PATENT-4,018,085	c 35	N77-22449 *	US-PATENT-4,052,302	c 25	N78-10225 *
US-PATENT-3,977,787	c 35	N76-31490 *	US-PATENT-4,018,092	c 37	N77-22482 *	US-PATENT-4,052,523	c 24	N78-10214 *
US-PATENT-3,977,831	c 45	N76-31714 *	US-PATENT-4,018,409	c 37	N77-23483 *	US-PATENT-4,052,614	c 35	N78-10429 *
US-PATENT-3,978,187	c 37	N76-31524 *	US-PATENT-4,018,423	c 54	N77-21844 *	US-PATENT-4,052,648	c 33	N78-10376 *
US-PATENT-3,978,287	c 32	N76-31372 *	US-PATENT-4,018,532	c 74	N77-22951 *	US-PATENT-4,052,659	c 33	N78-10377 *
US-PATENT-3,978,360	c 33	N76-31409 *	US-PATENT-4,018,533	c 74	N77-22950 *	US-PATENT-4,052,666	c 43	N78-10529 *
US-PATENT-3,978,364	c 31	N76-31365 *	US-PATENT-4,018,649	c 51	N77-25769 *	US-PATENT-4,052,705	c 60	N78-10709 *
US-PATENT-3,978,410	c 03	N76-32140 *	US-PATENT-4,018,971	c 44	N77-22606 *	US-PATENT-4,053,229	c 74	N78-13874 *
US-PATENT-3,978,417	c 36	N76-31512 *	US-PATENT-4,019,179	c 32	N77-21267 *	US-PATENT-4,053,231	c 35	N78-18391 *
US-PATENT-3,978,490	c 33	N76-32457 *	US-PATENT-4,019,868	c 44	N77-22607 *	US-PATENT-4,053,918	c 44	N78-13526 *
US-PATENT-3,982,910	c 44	N77-10636 *	US-PATENT-4,020,632	c 07	N77-23106 *	US-PATENT-4,055,004	c 09	N78-18083 *
US-PATENT-3,983,695	c 20	N77-10148 *	US-PATENT-4,023,266	c 33	N77-26385 *	US-PATENT-4,055,041	c 07	N78-18066 *
US-PATENT-3,983,714	c 31	N77-10229 *	US-PATENT-4,025,327	c 35	N77-24455 *	US-PATENT-4,055,072	c 35	N78-19465 *
US-PATENT-3,983,749	c 09	N77-10071 *	US-PATENT-4,025,783	c 74	N77-26942 *	US-PATENT-4,055,089	c 35	N78-18390 *
US-PATENT-3,983,753	c 52	N77-10780 *	US-PATENT-4,025,866	c 33	N77-24375 *	US-PATENT-4,055,147	c 35	N78-19466 *
US-PATENT-3,983,780	c 28	N77-10213 *	US-PATENT-4,025,875	c 36	N77-25499 *	US-PATENT-4,055,416	c 26	N78-18182 *
US-PATENT-3,983,933	c 34	N77-10463 *	US-PATENT-4,025,876	c 71	N77-26919 *	US-PATENT-4,055,447	c 26	N78-18183 *
US-PATENT-3,984,070	c 02	N77-10001 *	US-PATENT-4,025,891	c 35	N77-24454 *	US-PATENT-4,055,686	c 37	N78-13436 *
US-PATENT-3,984,072	c 15	N77-10113 *	US-PATENT-4,025,950	c 32	N77-24328 *	US-PATENT-4,055,705	c 34	N78-18355 *
US-PATENT-3,984,256	c 44	N77-10635 *	US-PATENT-4,025,964	c 52	N77-25772 *	US-PATENT-4,055,707	c 44	N78-19599 *
US-PATENT-3,984,634	c 32	N77-10392 *	US-PATENT-4,026,527	c 34	N77-24423 *	US-PATENT-4,055,764	c 35	N78-13400 *
US-PATENT-3,984,671	c 43	N77-10584 *	US-PATENT-4,026,655	c 36	N77-25501 *	US-PATENT-4,055,777	c 33	N78-18308 *
US-PATENT-3,984,681	c 35	N77-10492 *	US-PATENT-4,027,212	c 33	N77-26386 *	US-PATENT-4,055,810	c 36	N78-18410 *
US-PATENT-3,984,685	c 47	N77-10753 *	US-PATENT-4,027,265	c 32	N77-24331 *	US-PATENT-4,055,847	c 33	N78-13320 *
US-PATENT-3,984,686	c 35	N77-10493 *	US-PATENT-4,027,273	c 36	N77-25502 *	US-PATENT-4,061,029	c 35	N78-14364 *
US-PATENT-3,984,730	c 33	N77-10429 *	US-PATENT-4,027,494	c 35	N78-12390 *	US-PATENT-4,061,041	c 71	N78-14867 *
US-PATENT-3,984,799	c 33	N77-10428 *	US-PATENT-4,027,524	c 09	N77-27131 *	US-PATENT-4,061,146	c 52	N78-14773 *
US-PATENT-3,985,454	c 74	N77-10899 *	US-PATENT-4,028,939	c 34	N77-27345 *	US-PATENT-4,061,190	c 43	N78-14452 *
US-PATENT-3,987,630	c 37	N77-12402 *	US-PATENT-4,029,470	c 51	N77-27677 *	US-PATENT-4,061,427	c 36	N78-14380 *
US-PATENT-3,988,561	c 37	N77-11397 *	US-PATENT-4,029,500	c 24	N77-27187 *	US-PATENT-4,061,561	c 25	N78-14104 *
US-PATENT-3,988,677	c 32	N77-12240 *	US-PATENT-4,029,838	c 24	N77-27188 *	US-PATENT-4,061,570	c 54	N78-14784 *
US-PATENT-3,988,716	c 60	N77-12721 *	US-PATENT-4,030,047	c 35	N77-27366 *	US-PATENT-4,061,577	c 74	N78-14889 *
US-PATENT-3,988,729	c 32	N77-12239 *	US-PATENT-4,030,348	c 39	N78-10493 *	US-PATENT-4,061,579	c 24	N78-14096 *
US-PATENT-3,988,933	c 35	N77-19385 *	US-PATENT-4,031,389	c 36	N77-26477 *	US-PATENT-4,061,812	c 24	N78-15180 *
US-PATENT-3,989,136	c 37	N77-19457 *	US-PATENT-4,032,089	c 24	N77-28225 *	US-PATENT-4,061,834	c 27	N78-14164 *
US-PATENT-3,989,206	c 09	N77-19076 *	US-PATENT-4,032,089	c 27	N81-14077 *	US-PATENT-4,061,856	c 27	N78-15276 *
US-PATENT-3,989,541	c 44	N77-19571 *	US-PATENT-4,033,119	c 07	N77-28118 *	US-PATENT-4,061,955	c 44	N78-14625 *
US-PATENT-3,989,602	c 24	N77-19171 *	US-PATENT-4,033,133	c 28	N80-10374 *	US-PATENT-4,061,974	c 32	N78-15323 *
US-PATENT-3,990,049	c 60	N77-19760 *	US-PATENT-4,033,182	c 39	N77-28511 *	US-PATENT-4,062,227	c 39	N78-15512 *
US-PATENT-3,990,860	c 27	N77-13217 *	US-PATENT-4,033,286	c 25	N79-28253 *	US-PATENT-4,062,245	c 37	N78-16369 *
US-PATENT-3,990,987	c 37	N77-13418 *	US-PATENT-4,033,316	c 33	N77-28385 *	US-PATENT-4,062,347	c 44	N78-15560 *
US-PATENT-3,994,128	c 07	N77-14025 *	US-PATENT-4,033,334	c 52	N77-28717 *	US-PATENT-4,062,650	c 25	N78-15210 *
US-PATENT-3,995,324	c 52	N77-14735 *	US-PATENT-4,033,349	c 52	N77-28716 *	US-PATENT-4,062,996	c 74	N78-15879 *
US-PATENT-3,995,476	c 35	N77-14407 *	US-PATENT-4,033,479	c 37	N77-28487 *	US-PATENT-4,063,088	c 74	N78-15880 *
US-PATENT-3,995,522	c 37	N77-14478 *	US-PATENT-4,033,503	c 26	N77-29260 *	US-PATENT-4,063,092	c 35	N78-15461 *
US-PATENT-3,995,621	c 52	N77-14736 *	US-PATENT-4,033,504	c 26	N77-28265 *	US-PATENT-4,063,282	c 39	N78-16387 *
US-PATENT-3,995,644	c 52	N77-14738 *	US-PATENT-4,033,705	c 07	N77-27116 *	US-PATENT-4,063,814	c 74	N78-17866 *
US-PATENT-3,995,789	c 37	N77-14479 *	US-PATENT-4,033,882	c 32	N77-28346 *	US-PATENT-4,063,981	c 24	N78-17149 *
US-PATENT-3,995,877	c 37	N77-14477 *	US-PATENT-4,035,037	c 37	N77-28486 *	US-PATENT-4,064,566	c 27	N78-17215 *
US-PATENT-3,995,960	c 35	N77-14411 *	US-PATENT-4,035,062	c 74	N77-28932 *	US-PATENT-4,064,642	c 54	N78-17675 *

US-PATENT-4,064,692	c 37	N78-17384 *	US-PATENT-4,094,775	c 52	N80-14687 *	US-PATENT-4,132,069	c 07	N79-14096 *
US-PATENT-4,065,053	c 44	N78-17460 *	US-PATENT-4,094,862	c 27	N78-32261 *	US-PATENT-4,132,130	c 44	N79-14527 *
US-PATENT-4,065,202	c 35	N78-17357 *	US-PATENT-4,094,943	c 27	N78-32262 *	US-PATENT-4,132,375	c 08	N79-14108 *
US-PATENT-4,065,340	c 24	N78-17150 *	US-PATENT-4,095,593	c 54	N78-32721 *	US-PATENT-4,132,594	c 52	N79-14749 *
US-PATENT-4,065,345	c 27	N78-17205 *	US-PATENT-4,096,315	c 74	N78-32854 *	US-PATENT-4,132,599	c 52	N79-14750 *
US-PATENT-4,066,039	c 37	N78-17383 *	US-PATENT-4,097,194	c 07	N78-33101 *	US-PATENT-4,132,829	c 27	N79-14214 *
US-PATENT-4,067,015	c 17	N78-17140 *	US-PATENT-4,098,142	c 37	N79-10422 *	US-PATENT-4,132,940	c 35	N79-14348 *
US-PATENT-4,067,043	c 74	N78-17865 *	US-PATENT-4,099,799	c 37	N79-10418 *	US-PATENT-4,132,989	c 32	N79-14268 *
US-PATENT-4,067,653	c 74	N78-17867 *	US-PATENT-4,100,331	c 44	N79-10513 *	US-PATENT-4,133,697	c 44	N79-17314 *
US-PATENT-4,067,742	c 27	N78-17206 *	US-PATENT-4,100,487	c 33	N79-10337 *	US-PATENT-4,133,697	c 44	N80-14474 *
US-PATENT-4,068,469	c 07	N78-17055 *	US-PATENT-4,100,531	c 32	N79-10263 *	US-PATENT-4,133,941	c 44	N79-17313 *
US-PATENT-4,068,470	c 07	N78-17056 *	US-PATENT-4,101,195	c 89	N79-10969 *	US-PATENT-4,133,941	c 25	N82-1268 *
US-PATENT-4,068,495	c 31	N78-17237 *	US-PATENT-4,101,644	c 25	N79-10162 *	US-PATENT-4,134,447	c 31	N79-17029 *
US-PATENT-4,068,763	c 54	N78-17676 *	US-PATENT-4,101,780	c 35	N79-10389 *	US-PATENT-4,134,683	c 43	N79-17288 *
US-PATENT-4,069,028	c 34	N78-17335 *	US-PATENT-4,101,891	c 35	N79-10391 *	US-PATENT-4,134,744	c 35	N79-17192 *
US-PATENT-4,069,212	c 27	N78-17213 *	US-PATENT-4,101,961	c 52	N79-10724 *	US-PATENT-4,134,786	c 85	N79-17747 *
US-PATENT-4,069,478	c 60	N78-17691 *	US-PATENT-4,102,580	c 74	N79-11865 *	US-PATENT-4,135,019	c 24	N79-16915 *
US-PATENT-4,069,661	c 07	N78-18067 *	US-PATENT-4,103,550	c 31	N79-11246 *	US-PATENT-4,135,127	c 33	N79-17133 *
US-PATENT-4,070,574	c 74	N78-18905 *	US-PATENT-4,103,619	c 28	N79-11231 *	US-PATENT-4,135,290	c 44	N79-18444 *
US-PATENT-4,072,532	c 27	N78-19302 *	US-PATENT-4,103,712	c 37	N79-11402 *	US-PATENT-4,135,367	c 44	N79-18443 *
US-PATENT-4,075,057	c 73	N78-19920 *	US-PATENT-4,104,018	c 25	N79-11151 *	US-PATENT-4,135,817	c 35	N79-18296 *
US-PATENT-4,077,231	c 31	N78-25256 *	US-PATENT-4,104,084	c 44	N79-11467 *	US-PATENT-4,135,851	c 37	N79-18318 *
US-PATENT-4,077,678	c 44	N78-24608 *	US-PATENT-4,104,091	c 44	N79-11468 *	US-PATENT-4,135,851	c 37	N80-26658 *
US-PATENT-4,077,788	c 28	N78-24365 *	US-PATENT-4,104,134	c 44	N79-11469 *	US-PATENT-4,135,851	c 37	N82-19540 *
US-PATENT-4,077,788	c 28	N81-14103 *	US-PATENT-4,104,134	c 44	N80-16452 *	US-PATENT-4,136,211	c 24	N79-17916 *
US-PATENT-4,077,813	c 26	N78-24333 *	US-PATENT-4,104,873	c 37	N79-11403 *	US-PATENT-4,137,010	c 05	N79-17847 *
US-PATENT-4,077,818	c 44	N78-24609 *	US-PATENT-4,105,261	c 37	N79-11404 *	US-PATENT-4,137,365	c 27	N79-18052 *
US-PATENT-4,077,921	c 24	N78-24290 *	US-PATENT-4,105,517	c 44	N79-11470 *	US-PATENT-4,137,365	c 74	N79-20856 *
US-PATENT-4,078,110	c 34	N78-25350 *	US-PATENT-4,105,966	c 33	N79-11315 *	US-PATENT-4,139,806	c 71	N79-20827 *
US-PATENT-4,078,175	c 76	N78-24950 *	US-PATENT-4,106,218	c 74	N79-13855 *	US-PATENT-4,139,839	c 60	N79-20751 *
US-PATENT-4,078,290	c 37	N78-24544 *	US-PATENT-4,106,587	c 71	N79-14871 *	US-PATENT-4,139,862	c 32	N79-20297 *
US-PATENT-4,078,378	c 37	N78-24545 *	US-PATENT-4,106,687	c 37	N79-13364 *	US-PATENT-4,140,972	c 32	N79-20296 *
US-PATENT-4,079,268	c 32	N78-24391 *	US-PATENT-4,107,363	c 33	N79-12331 *	US-PATENT-4,141,219	c 34	N79-20335 *
US-PATENT-4,080,901	c 20	N78-24275 *	US-PATENT-4,107,627	c 72	N79-13826 *	US-PATENT-4,141,224	c 34	N79-20336 *
US-PATENT-4,081,250	c 44	N78-31527 *	US-PATENT-4,107,919	c 34	N79-13288 *	US-PATENT-4,141,259	c 37	N79-20377 *
US-PATENT-4,082,001	c 35	N78-24515 *	US-PATENT-4,108,241	c 34	N79-13289 *	US-PATENT-4,142,101	c 74	N79-20857 *
US-PATENT-4,082,569	c 44	N78-25527 *	US-PATENT-4,109,213	c 33	N79-22373 *	US-PATENT-4,142,119	c 33	N79-20314 *
US-PATENT-4,083,097	c 44	N78-25528 *	US-PATENT-4,109,644	c 52	N79-18580 *	US-PATENT-4,143,314	c 20	N79-20179 *
US-PATENT-4,083,181	c 07	N78-25089 *	US-PATENT-4,110,683	c 33	N79-18193 *	US-PATENT-4,145,058	c 37	N79-22475 *
US-PATENT-4,083,380	c 37	N78-25426 *	US-PATENT-4,110,703	c 36	N79-18307 *	US-PATENT-4,145,255	c 25	N79-22235 *
US-PATENT-4,083,520	c 15	N78-25119 *	US-PATENT-4,111,041	c 35	N79-14345 *	US-PATENT-4,145,524	c 27	N79-22300 *
US-PATENT-4,083,765	c 35	N78-25391 *	US-PATENT-4,111,058	c 35	N79-14347 *	US-PATENT-4,145,933	c 39	N79-22537 *
US-PATENT-4,084,124	c 44	N78-25531 *	US-PATENT-4,111,068	c 37	N79-14382 *	US-PATENT-4,146,180	c 37	N79-22474 *
US-PATENT-4,084,132	c 33	N78-25319 *	US-PATENT-4,111,184	c 44	N79-14526 *	US-PATENT-4,146,367	c 25	N81-33246 *
US-PATENT-4,084,612	c 34	N78-25351 *	US-PATENT-4,111,718	c 35	N79-14346 *	US-PATENT-4,146,409	c 26	N79-22271 *
US-PATENT-4,084,825	c 07	N78-25090 *	US-PATENT-4,111,729	c 28	N79-14228 *	US-PATENT-4,148,031	c 32	N79-24210 *
US-PATENT-4,084,985	c 44	N78-25529 *	US-PATENT-4,111,775	c 76	N79-14906 *	US-PATENT-4,148,295	c 44	N79-23481 *
US-PATENT-4,085,004	c 73	N78-28913 *	US-PATENT-4,111,851	c 24	N79-14156 *	US-PATENT-4,148,375	c 46	N79-22679 *
US-PATENT-4,085,241	c 44	N78-25530 *	US-PATENT-4,112,357	c 33	N79-14305 *	US-PATENT-4,148,452	c 08	N79-23097 *
US-PATENT-4,085,332	c 25	N78-25148 *	US-PATENT-4,112,497	c 32	N79-14267 *	US-PATENT-4,148,962	c 24	N79-24062 *
US-PATENT-4,087,902	c 33	N78-27326 *	US-PATENT-4,112,875	c 44	N78-33526 *	US-PATENT-4,149,034	c 71	N79-23753 *
US-PATENT-4,087,962	c 34	N78-27357 *	US-PATENT-4,116,131	c 20	N78-32179 *	US-PATENT-4,149,233	c 33	N79-24257 *
US-PATENT-4,087,975	c 44	N78-32542 *	US-PATENT-4,117,669	c 07	N79-10057 *	US-PATENT-4,149,278	c 54	N79-24652 *
US-PATENT-4,088,018	c 37	N78-27424 *	US-PATENT-4,117,731	c 35	N79-10390 *	US-PATENT-4,149,423	c 32	N79-24203 *
US-PATENT-4,088,094	c 51	N78-27733 *	US-PATENT-4,117,749	c 37	N79-10419 *	US-PATENT-4,149,521	c 44	N79-24433 *
US-PATENT-4,088,270	c 07	N78-27121 *	US-PATENT-4,117,881	c 51	N79-10694 *	US-PATENT-4,149,665	c 44	N79-24431 *
US-PATENT-4,088,291	c 37	N78-27425 *	US-PATENT-4,118,014	c 37	N79-10420 *	US-PATENT-4,149,817	c 44	N79-24432 *
US-PATENT-4,088,312	c 37	N78-27423 *	US-PATENT-4,118,315	c 51	N79-10693 *	US-PATENT-4,149,938	c 25	N79-24073 *
US-PATENT-4,088,408	c 74	N78-27904 *	US-PATENT-4,118,427	c 27	N80-32514 *	US-PATENT-4,150,425	c 33	N79-24254 *
US-PATENT-4,088,532	c 25	N78-27226 *	US-PATENT-4,118,620	c 37	N79-10421 *	US-PATENT-4,151,086	c 34	N79-24285 *
US-PATENT-4,088,806	c 24	N78-27180 *	US-PATENT-4,118,665	c 33	N79-10338 *	US-PATENT-4,151,456	c 33	N79-23345 *
US-PATENT-4,088,926	c 75	N78-27913 *	US-PATENT-4,118,666	c 32	N79-10262 *	US-PATENT-4,151,612	c 54	N79-24651 *
US-PATENT-4,088,951	c 35	N78-28411 *	US-PATENT-4,118,671	c 33	N79-10339 *	US-PATENT-4,151,800	c 24	N79-25142 *
US-PATENT-4,088,954	c 35	N78-32397 *	US-PATENT-4,118,701	c 32	N79-10264 *	US-PATENT-4,152,194	c 76	N79-23798 *
US-PATENT-4,088,965	c 36	N78-27402 *	US-PATENT-4,119,581	c 27	N81-14076 *	US-PATENT-4,153,134	c 46	N79-23555 *
US-PATENT-4,088,999	c 44	N78-28594 *	US-PATENT-4,119,926	c 33	N79-11313 *	US-PATENT-4,153,476	c 44	N79-25482 *
US-PATENT-4,089,004	c 32	N80-29539 *	US-PATENT-4,119,964	c 32	N79-11265 *	US-PATENT-4,153,818	c 32	N79-23310 *
US-PATENT-4,089,209	c 35	N78-27384 *	US-PATENT-4,119,972	c 32	N79-11264 *	US-PATENT-4,154,084	c 43	N79-25443 *
US-PATENT-4,089,705	c 44	N78-27515 *	US-PATENT-4,119,996	c 33	N79-12321 *	US-PATENT-4,154,228	c 52	N79-27836 *
US-PATENT-4,090,213	c 44	N80-29835 *	US-PATENT-4,121,965	c 76	N79-11920 *	US-PATENT-4,154,230	c 52	N79-26771 *
US-PATENT-4,091,166	c 27	N78-31233 *	US-PATENT-4,121,995	c 25	N79-11152 *	US-PATENT-4,154,256	c 05	N79-24976 *
US-PATENT-4,091,329	c 33	N78-32339 *	US-PATENT-4,122,214	c 44	N79-11472 *	US-PATENT-4,154,501	c 33	N81-29342 *
US-PATENT-4,091,464	c 54	N78-31735 *	US-PATENT-4,122,334	c 74	N79-12890 *	US-PATENT-4,154,912	c 44	N79-25481 *
US-PATENT-4,091,464	c 54	N79-24651 *	US-PATENT-4,122,383	c 44	N79-12541 *	US-PATENT-4,155,475	c 24	N79-25143 *
US-PATENT-4,091,465	c 54	N78-31736 *	US-PATENT-4,122,454	c 32	N79-13214 *	US-PATENT-4,156,309	c 44	N79-26475 *
US-PATENT-4,091,613	c 44	N78-32539 *	US-PATENT-4,122,518	c 52	N79-12694 *	US-PATENT-4,156,548	c 35	N79-26372 *
US-PATENT-4,091,665	c 09	N78-31129 *	US-PATENT-4,122,712	c 34	N79-12359 *	US-PATENT-4,156,752	c 15	N79-26100 *
US-PATENT-4,091,798	c 44	N78-31526 *	US-PATENT-4,122,725	c 38	N79-14398 *	US-PATENT-4,156,971	c 43	N79-26439 *
US-PATENT-4,091,800	c 44	N78-31525 *	US-PATENT-4,122,816	c 37	N79-11405 *	US-PATENT-4,157,655	c 43	N80-14423 *
US-PATENT-4,092,188	c 28	N78-31255 *	US-PATENT-4,122,833	c 44	N79-11471 *	US-PATENT-4,157,718	c 52	N80-14684 *
US-PATENT-4,092,274	c 27	N78-31232 *	US-PATENT-4,122,991	c 18	N79-11108 *	US-PATENT-4,158,583	c 28	N79-28342 *
US-PATENT-4,092,466	c 27	N78-32256 *	US-PATENT-4,123,355	c 45	N79-12584 *	US-PATENT-4,158,742	c 12	N79-26075 *
US-PATENT-4,092,466	c 27	N80-10358 *	US-PATENT-4,124,180	c 05	N79-12061 *	US-PATENT-4,158,775	c 72	N80-14877 *
US-PATENT-4,092,606	c 33	N78-32338 *	US-PATENT-4,124,305	c 07	N79-14095 *	US-PATENT-4,158,895	c 52	N79-26772 *
US-PATENT-4,092,617	c 33	N78-32340 *	US-PATENT-4,124,732	c 27	N79-12221 *	US-PATENT-4,159,262	c 27	N79-28307 *
US-PATENT-4,092,633	c 54	N78-32720 *	US-PATENT-4,128,814	c 36	N79-14362 *	US-PATENT-4,159,366	c 44	N79-26474 *
US-PATENT-4,092,648	c 32	N78-31321 *	US-PATENT-4,129,357	c 74	N79-14891 *	US-PATENT-4,159,634	c 37	N79-28550 *
US-PATENT-4,092,712	c 33	N78-32341 *	US-PATENT-4,130,032	c 37	N79-14383 *	US-PATENT-4,160,254	c 33	N79-28416 *
US-PATENT-4,092,874	c 37	N78-31426 *	US-PATENT-4,130,112	c 52	N79-14751 *	US-PATENT-4,160,508	c 37	N79-28551 *
US-PATENT-4,093,156	c 05	N78-32086 *	US-PATENT-4,130,471	c 25	N79-14169 *	US-PATENT-4,160,601	c 35	N79-28527 *
US-PATENT-4,093,354	c 73	N78-32848 *	US-PATENT-4,130,490	c 33	N79-15245 *	US-PATENT-4,161,661	c 33	N79-28415 *
US-PATENT-4,093,382	c 38	N78-32447 *	US-PATENT-4,130,795	c 35	N79-14349 *	US-PATENT-4,161,731	c 31	N79-28370 *
US-PATENT-4,093,771	c 27	N78-32260 *	US-PATENT-4,131,336	c 44	N79-14529 *	US-PATENT-4,161,747	c 37	N79-28549 *
US-PATENT-4,093,917	c 35	N78-32396 *	US-PATENT-4,131,459	c 27	N79-14213 *	US-PATENT-4,162,169	c 24	N79-31347 *
US-PATENT-4,094,073	c 35	N78-32395 *	US-PATENT-4,131,486	c 44	N79-14528 *	US-PATENT-4,162,701	c 34	N79-31523 *
US-PATENT-4,094,758	c 26	N78-32229 *	US-PATENT-4,132,068	c 07	N79-14097 *	US-PATENT-4,162,928	c 44	N79-31753 *

US-PATENT-4,163,678	c 44	N79-31752 *	US-PATENT-4,203,723	c 27	N80-26446 *	US-PATENT-4,245,085	c 27	N81-17262 *
US-PATENT-4,164,079	c 09	N79-31228 *	US-PATENT-4,204,037	c 51	N80-27067 *	US-PATENT-4,245,286	c 33	N81-19392 *
US-PATENT-4,164,718	c 32	N80-14281 *	US-PATENT-4,204,154	c 33	N80-26599 *	US-PATENT-4,245,288	c 33	N81-19393 *
US-PATENT-4,165,460	c 43	N79-31706 *	US-PATENT-4,204,402	c 07	N80-26298 *	US-PATENT-4,245,469	c 44	N81-24519 *
US-PATENT-4,166,170	c 27	N79-33316 *	US-PATENT-4,204,544	c 52	N80-27072 *	US-PATENT-4,245,566	c 31	N81-19343 *
US-PATENT-4,166,170	c 27	N81-14078 *	US-PATENT-4,204,899	c 24	N80-26388 *	US-PATENT-4,245,768	c 37	N81-19455 *
US-PATENT-4,166,959	c 74	N79-34011 *	US-PATENT-4,205,229	c 35	N80-26635 *	US-PATENT-4,245,956	c 05	N81-19087 *
US-PATENT-4,167,111	c 46	N80-10709 *	US-PATENT-4,206,383	c 72	N80-27163 *	US-PATENT-4,246,001	c 27	N81-17261 *
US-PATENT-4,168,287	c 27	N80-10358 *	US-PATENT-4,206,713	c 31	N81-15154 *	US-PATENT-4,246,901	c 52	N81-24711 *
US-PATENT-4,168,483	c 39	N80-10507 *	US-PATENT-4,206,970	c 74	N80-27185 *	US-PATENT-4,247,434	c 25	N81-19242 *
US-PATENT-4,168,706	c 54	N80-10799 *	US-PATENT-4,207,024	c 37	N80-26658 *	US-PATENT-4,248,083	c 35	N81-19426 *
US-PATENT-4,168,718	c 20	N80-10278 *	US-PATENT-4,207,024	c 37	N82-19540 *	US-PATENT-4,249,116	c 33	N81-20352 *
US-PATENT-4,168,939	c 05	N80-14107 *	US-PATENT-4,209,393	c 45	N82-11634 *	US-PATENT-4,249,238	c 07	N81-19115 *
US-PATENT-4,169,129	c 37	N80-10494 *	US-PATENT-4,209,561	c 24	N81-13999 *	US-PATENT-4,249,417	c 52	N81-20703 *
US-PATENT-4,170,776	c 46	N80-14603 *	US-PATENT-4,210,278	c 31	N80-32583 *	US-PATENT-4,249,957	c 44	N81-19558 *
US-PATENT-4,170,987	c 52	N81-27783 *	US-PATENT-4,210,401	c 35	N80-28687 *	US-PATENT-4,250,143	c 54	N81-24724 *
US-PATENT-4,171,615	c 20	N80-14188 *	US-PATENT-4,210,474	c 28	N80-28536 *	US-PATENT-4,252,007	c 33	N81-25299 *
US-PATENT-4,171,645	c 35	N80-14371 *	US-PATENT-4,210,622	c 44	N80-24741 *	US-PATENT-4,252,111	c 52	N81-25661 *
US-PATENT-4,172,228	c 33	N80-14332 *	US-PATENT-4,211,354	c 24	N81-17170 *	US-PATENT-4,252,440	c 39	N81-25400 *
US-PATENT-4,172,786	c 45	N80-14579 *	US-PATENT-4,211,354	c 24	N81-26179 *	US-PATENT-4,252,768	c 37	N81-25371 *
US-PATENT-4,172,883	c 26	N80-14229 *	US-PATENT-4,212,199	c 02	N80-28300 *	US-PATENT-4,253,156	c 34	N81-26402 *
US-PATENT-4,173,001	c 36	N80-14384 *	US-PATENT-4,212,297	c 51	N81-14605 *	US-PATENT-4,253,769	c 25	N81-25159 *
US-PATENT-4,173,324	c 37	N80-14398 *	US-PATENT-4,212,477	c 37	N80-28711 *	US-PATENT-4,254,464	c 62	N81-24779 *
US-PATENT-4,173,397	c 44	N80-14473 *	US-PATENT-4,212,477	c 37	N81-26447 *	US-PATENT-4,255,048	c 36	N81-24422 *
US-PATENT-4,173,820	c 44	N80-14474 *	US-PATENT-4,212,690	c 26	N80-28492 *	US-PATENT-4,255,495	c 26	N81-25188 *
US-PATENT-4,175,249	c 44	N80-14472 *	US-PATENT-4,213,051	c 35	N80-28686 *	US-PATENT-4,255,929	c 37	N81-25370 *
US-PATENT-4,176,007	c 51	N80-16714 *	US-PATENT-4,213,064	c 60	N81-15706 *	US-PATENT-4,256,093	c 52	N81-25660 *
US-PATENT-4,176,360	c 18	N80-14183 *	US-PATENT-4,213,131	c 32	N80-28578 *	US-PATENT-4,258,366	c 32	N81-25278 *
US-PATENT-4,176,662	c 52	N80-16725 *	US-PATENT-4,213,684	c 74	N81-17886 *	US-PATENT-4,259,821	c 31	N81-25258 *
US-PATENT-4,176,950	c 36	N80-16321 *	US-PATENT-4,214,226	c 31	N80-32584 *	US-PATENT-4,259,825	c 31	N81-25259 *
US-PATENT-4,177,325	c 44	N80-16452 *	US-PATENT-4,214,703	c 07	N80-32392 *	US-PATENT-4,260,166	c 37	N81-24442 *
US-PATENT-4,177,333	c 25	N80-16116 *	US-PATENT-4,214,902	c 26	N80-32484 *	US-PATENT-4,260,187	c 37	N81-27519 *
US-PATENT-4,178,100	c 35	N80-18359 *	US-PATENT-4,214,905	c 24	N80-33482 *	US-PATENT-4,261,349	c 52	N81-25662 *
US-PATENT-4,180,648	c 27	N80-16158 *	US-PATENT-4,215,273	c 74	N80-33210 *	US-PATENT-4,261,537	c 08	N81-24106 *
US-PATENT-4,181,589	c 51	N80-16715 *	US-PATENT-4,215,327	c 32	N80-32605 *	US-PATENT-4,262,064	c 44	N81-24521 *
US-PATENT-4,182,158	c 35	N80-18358 *	US-PATENT-4,215,345	c 04	N80-32359 *	US-PATENT-4,262,067	c 27	N81-24257 *
US-PATENT-4,183,217	c 20	N80-18097 *	US-PATENT-4,215,548	c 37	N80-31790 *	US-PATENT-4,262,080	c 27	N81-25209 *
US-PATENT-4,184,072	c 44	N80-18552 *	US-PATENT-4,215,590	c 37	N80-32717 *	US-PATENT-4,262,195	c 44	N81-24520 *
US-PATENT-4,184,111	c 44	N80-18551 *	US-PATENT-4,215,592	c 37	N80-32716 *	US-PATENT-4,262,198	c 74	N83-19597 *
US-PATENT-4,184,149	c 06	N80-18036 *	US-PATENT-4,215,927	c 76	N80-32244 *	US-PATENT-4,262,206	c 74	N81-24900 *
US-PATENT-4,184,155	c 43	N80-18498 *	US-PATENT-4,216,186	c 33	N81-15192 *	US-PATENT-4,262,258	c 33	N81-27396 *
US-PATENT-4,184,327	c 07	N80-18039 *	US-PATENT-4,217,165	c 76	N80-32245 *	US-PATENT-4,262,259	c 33	N81-24338 *
US-PATENT-4,184,368	c 48	N80-18667 *	US-PATENT-4,217,633	c 44	N81-12542 *	US-PATENT-4,263,112	c 28	N81-24280 *
US-PATENT-4,184,472	c 76	N80-18951 *	US-PATENT-4,218,280	c 27	N80-32516 *	US-PATENT-4,264,310	c 54	N81-27806 *
US-PATENT-4,184,491	c 52	N80-18690 *	US-PATENT-4,218,633	c 72	N80-33186 *	US-PATENT-4,264,728	c 51	N81-28698 *
US-PATENT-4,184,609	c 37	N80-18393 *	US-PATENT-4,218,650	c 33	N80-32650 *	US-PATENT-4,264,802	c 35	N81-26431 *
US-PATENT-4,184,903	c 44	N80-18550 *	US-PATENT-4,218,682	c 32	N80-32604 *	US-PATENT-4,264,908	c 33	N81-26358 *
US-PATENT-4,185,164	c 33	N80-18286 *	US-PATENT-4,218,685	c 32	N81-14187 *	US-PATENT-4,264,940	c 33	N81-27397 *
US-PATENT-4,185,493	c 35	N80-18357 *	US-PATENT-4,218,892	c 35	N81-14287 *	US-PATENT-4,264,984	c 60	N81-27814 *
US-PATENT-4,186,347	c 32	N80-18253 *	US-PATENT-4,218,921	c 71	N81-15767 *	US-PATENT-4,265,416	c 14	N81-26161 *
US-PATENT-4,186,749	c 52	N80-18691 *	US-PATENT-4,218,941	c 37	N81-14319 *	US-PATENT-4,266,177	c 33	N81-27395 *
US-PATENT-4,187,394	c 32	N80-18252 *	US-PATENT-4,219,027	c 52	N81-14612 *	US-PATENT-4,266,743	c 08	N81-26152 *
US-PATENT-4,187,416	c 33	N80-18285 *	US-PATENT-4,219,087	c 31	N81-14137 *	US-PATENT-4,266,788	c 37	N81-26447 *
US-PATENT-4,187,470	c 36	N80-18372 *	US-PATENT-4,219,107	c 37	N81-15364 *	US-PATENT-4,267,594	c 33	N81-26359 *
US-PATENT-4,187,506	c 33	N80-18287 *	US-PATENT-4,219,171	c 37	N81-14320 *	US-PATENT-4,267,953	c 24	N81-26179 *
US-PATENT-4,188,368	c 31	N80-18231 *	US-PATENT-4,219,203	c 37	N81-15363 *	US-PATENT-4,267,992	c 37	N81-24443 *
US-PATENT-4,188,823	c 02	N80-20224 *	US-PATENT-4,219,926	c 44	N81-14389 *	US-PATENT-4,269,640	c 37	N82-24491 *
US-PATENT-4,189,234	c 74	N80-21138 *	US-PATENT-4,220,171	c 07	N81-14999 *	US-PATENT-4,269,787	c 27	N81-24256 *
US-PATENT-4,189,675	c 32	N80-20448 *	US-PATENT-4,221,005	c 32	N81-15179 *	US-PATENT-4,270,539	c 52	N81-28740 *
US-PATENT-4,189,914	c 07	N81-29129 *	US-PATENT-4,222,098	c 33	N81-14220 *	US-PATENT-4,270,984	c 44	N81-29524 *
US-PATENT-4,190,060	c 52	N81-29763 *	US-PATENT-4,225,102	c 02	N81-14968 *	US-PATENT-4,271,761	c 15	N82-24272 *
US-PATENT-4,190,626	c 24	N81-29163 *	US-PATENT-4,225,372	c 27	N81-14077 *	US-PATENT-4,272,046	c 08	N82-24205 *
US-PATENT-4,191,159	c 37	N80-29703 *	US-PATENT-4,226,475	c 43	N81-26509 *	US-PATENT-4,272,302	c 33	N81-26360 *
US-PATENT-4,191,505	c 44	N80-21828 *	US-PATENT-4,227,096	c 33	N81-17348 *	US-PATENT-4,272,470	c 23	N81-29160 *
US-PATENT-4,191,893	c 44	N80-29834 *	US-PATENT-4,228,422	c 33	N81-14221 *	US-PATENT-4,272,720	c 47	N82-24779 *
US-PATENT-4,192,290	c 44	N80-20810 *	US-PATENT-4,228,656	c 37	N81-14318 *	US-PATENT-4,273,304	c 05	N81-26114 *
US-PATENT-4,192,910	c 33	N80-20487 *	US-PATENT-4,229,182	c 28	N81-15119 *	US-PATENT-4,273,505	c 54	N81-26718 *
US-PATENT-4,192,910	c 44	N81-29524 *	US-PATENT-4,229,196	c 28	N81-14103 *	US-PATENT-4,273,918	c 27	N82-24338 *
US-PATENT-4,192,994	c 74	N80-21140 *	US-PATENT-4,229,473	c 24	N81-14000 *	US-PATENT-4,274,038	c 37	N81-33483 *
US-PATENT-4,193,368	c 44	N80-20808 *	US-PATENT-4,229,473	c 24	N81-33235 *	US-PATENT-4,274,285	c 35	N81-29407 *
US-PATENT-4,193,435	c 37	N80-23653 *	US-PATENT-4,230,717	c 52	N81-14613 *	US-PATENT-4,274,901	c 24	N81-33235 *
US-PATENT-4,193,570	c 35	N80-21719 *	US-PATENT-4,233,258	c 27	N81-14078 *	US-PATENT-4,275,317	c 33	N82-24418 *
US-PATENT-4,193,693	c 35	N80-20563 *	US-PATENT-4,233,606	c 32	N81-14185 *	US-PATENT-4,275,453	c 33	N82-24417 *
US-PATENT-4,193,827	c 28	N80-20402 *	US-PATENT-4,234,258	c 25	N81-14015 *	US-PATENT-4,276,344	c 27	N81-27272 *
US-PATENT-4,193,827	c 28	N81-14103 *	US-PATENT-4,234,715	c 25	N81-14016 *	US-PATENT-4,276,344	c 27	N85-21347 *
US-PATENT-4,194,115	c 25	N80-20334 *	US-PATENT-4,234,971	c 32	N81-14186 *	US-PATENT-4,276,403	c 27	N81-27271 *
US-PATENT-4,195,244	c 35	N80-20559 *	US-PATENT-4,235,060	c 37	N81-14317 *	US-PATENT-4,276,553	c 32	N81-27341 *
US-PATENT-4,195,279	c 35	N80-20560 *	US-PATENT-4,236,383	c 44	N81-17518 *	US-PATENT-4,276,588	c 33	N81-33404 *
US-PATENT-4,195,512	c 43	N80-23711 *	US-PATENT-4,236,684	c 08	N81-19130 *	US-PATENT-4,277,402	c 23	N82-16174 *
US-PATENT-4,195,666	c 37	N80-23654 *	US-PATENT-4,237,662	c 31	N81-27323 *	US-PATENT-4,277,721	c 33	N82-24415 *
US-PATENT-4,196,129	c 27	N80-32515 *	US-PATENT-4,238,911	c 31	N81-27324 *	US-PATENT-4,278,220	c 07	N82-26293 *
US-PATENT-4,196,619	c 46	N80-24906 *	US-PATENT-4,239,057	c 37	N81-17433 *	US-PATENT-4,278,351	c 74	N81-29963 *
US-PATENT-4,196,840	c 37	N80-23655 *	US-PATENT-4,240,256	c 37	N81-17432 *	US-PATENT-4,278,830	c 44	N81-29525 *
US-PATENT-4,197,530	c 33	N80-23559 *	US-PATENT-4,240,290	c 06	N81-17057 *	US-PATENT-4,278,830	c 44	N82-28780 *
US-PATENT-4,198,209	c 28	N80-23471 *	US-PATENT-4,240,601	c 43	N81-17499 *	US-PATENT-4,278,978	c 32	N81-29308 *
US-PATENT-4,198,232	c 26	N80-23419 *	US-PATENT-4,241,308	c 33	N81-17349 *	US-PATENT-4,279,018	c 33	N81-33405 *
US-PATENT-4,198,788	c 74	N80-24149 *	US-PATENT-4,241,312	c 35	N81-19427 *	US-PATENT-4,279,001	c 33	N82-24416 *
US-PATENT-4,198,792	c 25	N80-23383 *	US-PATENT-4,242,498	c 27	N81-17259 *	US-PATENT-4,279,632	c 31	N81-33319 *
US-PATENT-4,198,988	c 52	N80-23969 *	US-PATENT-4,242,553	c 33	N81-19389 *	US-PATENT-4,279,906	c 52	N81-29764 *
US-PATENT-4,199,448	c 27	N80-23452 *	US-PATENT-4,242,864	c 07	N81-19116 *	US-PATENT-4,280,141	c 33	N81-33403 *
US-PATENT-4,199,650	c 27	N80-24437 *	US-PATENT-4,243,323	c 74	N81-17888 *	US-PATENT-4,280,689	c 37	N81-33482 *
US-PATENT-4,199,764	c 32	N80-23524 *	US-PATENT-4,243,327	c 74	N81-17887 *	US-PATENT-4,280,766	c 35	N81-29308 *
US-PATENT-4,199,937	c 34	N80-24573 *	US-PATENT-4,244,215	c 04	N81-21047 *	US-PATENT-4,281,102	c 27	N81-29229 *
US-PATENT-4,199,937	c 44	N81-24519 *	US-PATENT-4,244,810	c 09	N82-29330 *	US-PATENT-4,281,384	c 18	N81-29152 *
US-PATENT-4,200,721	c 27	N80-24438 *	US-PATENT-4,244,853	c 27	N81-19296 *	US-PATENT-4,281,708	c 33	N82-24419 *
US-PATENT-4,201,468	c 32	N80-24510 *	US-PATENT-4,244,857	c 27	N81-17260 *	US-PATENT-4,282,479	c 33	N82-24420 *

US-PATENT-4,282,525	c 46	N82-12685 *	US-PATENT-4,331,746	c 44	N82-29708 *	US-PATENT-4,381,333	c 44	N83-34448 *
US-PATENT-4,282,752	c 44	N82-16474 *	US-PATENT-4,331,873	c 44	N82-32841 *	US-PATENT-4,381,375	c 37	N83-34323 *
US-PATENT-4,283,705	c 06	N82-16075 *	US-PATENT-4,331,956	c 33	N82-29538 *	US-PATENT-4,381,583	c 31	N83-31895 *
US-PATENT-4,283,995	c 37	N81-32510 *	US-PATENT-4,332,441	c 36	N82-29589 *	US-PATENT-4,381,881	c 74	N83-29032 *
US-PATENT-4,284,034	c 51	N81-32829 *	US-PATENT-4,335,190	c 27	N83-31855 *	US-PATENT-4,382,116	c 44	N83-27344 *
US-PATENT-4,284,461	c 27	N82-11206 *	US-PATENT-4,335,196	c 44	N83-13579 *	US-PATENT-4,382,224	c 33	N83-27126 *
US-PATENT-4,284,682	c 27	N82-16238 *	US-PATENT-4,335,206	c 35	N82-28604 *	US-PATENT-4,382,239	c 32	N83-27085 *
US-PATENT-4,286,209	c 35	N82-11431 *	US-PATENT-4,335,503	c 44	N82-29709 *	US-PATENT-4,383,171	c 35	N83-27184 *
US-PATENT-4,286,460	c 09	N82-11088 *	US-PATENT-4,336,117	c 26	N82-29415 *	US-PATENT-4,383,533	c 52	N83-27578 *
US-PATENT-4,286,542	c 37	N82-12441 *	US-PATENT-4,336,276	c 27	N82-29453 *	US-PATENT-4,383,785	c 31	N83-27058 *
US-PATENT-4,287,152	c 35	N82-11432 *	US-PATENT-4,336,616	c 33	N82-29539 *	US-PATENT-4,384,578	c 52	N83-27577 *
US-PATENT-4,287,518	c 32	N82-11336 *	US-PATENT-4,338,061	c 07	N83-31603 *	US-PATENT-4,384,823	c 34	N83-27144 *
US-PATENT-4,287,578	c 32	N82-18443 *	US-PATENT-4,338,368	c 27	N82-29456 *	US-PATENT-4,385,043	c 24	N83-25789 *
US-PATENT-4,287,606	c 74	N82-19029 *	US-PATENT-4,338,371	c 24	N82-29362 *	US-PATENT-4,385,113	c 51	N83-27569 *
US-PATENT-4,287,838	c 25	N82-11144 *	US-PATENT-4,338,371	c 54	N84-11758 *	US-PATENT-4,385,949	c 31	N83-34073 *
US-PATENT-4,288,585	c 27	N82-18389 *	US-PATENT-4,338,516	c 74	N82-30071 *	US-PATENT-4,386,157	c 51	N83-28849 *
US-PATENT-4,288,982	c 20	N82-18314 *	US-PATENT-4,338,568	c 33	N83-31954 *	US-PATENT-4,386,750	c 18	N83-28064 *
US-PATENT-4,290,612	c 37	N82-16408 *	US-PATENT-4,340,318	c 37	N82-32732 *	US-PATENT-4,387,513	c 06	N83-33882 *
US-PATENT-4,290,779	c 44	N82-16475 *	US-PATENT-4,340,425	c 26	N82-31505 *	US-PATENT-4,387,935	c 37	N83-32067 *
US-PATENT-4,291,294	c 04	N82-16059 *	US-PATENT-4,341,012	c 35	N82-31659 *	US-PATENT-4,388,171	c 23	N84-16255 *
US-PATENT-4,291,887	c 37	N82-12442 *	US-PATENT-4,341,843	c 26	N82-30371 *	US-PATENT-4,388,346	c 33	N84-16456 *
US-PATENT-4,292,375	c 24	N82-24296 *	US-PATENT-4,341,918	c 44	N82-31764 *	US-PATENT-4,388,502	c 05	N83-27975 *
US-PATENT-4,292,634	c 32	N82-12297 *	US-PATENT-4,341,925	c 32	N82-31583 *	US-PATENT-4,388,542	c 44	N83-28573 *
US-PATENT-4,293,522	c 25	N82-12166 *	US-PATENT-4,343,287	c 37	N82-32730 *	US-PATENT-4,388,585	c 33	N83-28319 *
US-PATENT-4,294,261	c 52	N82-11770 *	US-PATENT-4,343,447	c 08	N82-32373 *	US-PATENT-4,388,585	c 33	N84-33660 *
US-PATENT-4,294,264	c 52	N82-22875 *	US-PATENT-4,343,506	c 85	N82-33288 *	US-PATENT-4,388,965	c 34	N83-28356 *
US-PATENT-4,295,111	c 33	N82-11357 *	US-PATENT-4,343,584	c 37	N82-32371 *	US-PATENT-4,389,504	c 27	N83-28240 *
US-PATENT-4,295,140	c 35	N82-15381 *	US-PATENT-4,343,772	c 44	N83-10501 *	US-PATENT-4,389,504	c 27	N85-21349 *
US-PATENT-4,295,786	c 37	N82-19540 *	US-PATENT-4,344,591	c 24	N82-32417 *	US-PATENT-4,389,849	c 44	N83-28574 *
US-PATENT-4,298,833	c 33	N82-18493 *	US-PATENT-4,344,787	c 31	N83-31896 *	US-PATENT-4,389,904	c 35	N83-29650 *
US-PATENT-4,298,926	c 33	N82-18494 *	US-PATENT-4,344,996	c 27	N82-33521 *	US-PATENT-4,391,129	c 34	N83-31993 *
US-PATENT-4,298,987	c 60	N82-16747 *	US-PATENT-4,345,153	c 35	N82-32659 *	US-PATENT-4,391,423	c 18	N83-29303 *
US-PATENT-4,299,492	c 36	N82-16396 *	US-PATENT-4,346,595	c 06	N83-10040 *	US-PATENT-4,391,514	c 36	N83-34304 *
US-PATENT-4,300,106	c 36	N82-13415 *	US-PATENT-4,346,595	c 06	N84-34443 *	US-PATENT-4,391,518	c 36	N83-29680 *
US-PATENT-4,300,159	c 43	N82-13465 *	US-PATENT-4,346,715	c 52	N82-33996 *	US-PATENT-4,391,609	c 25	N83-31743 *
US-PATENT-4,300,656	c 71	N82-16800 *	US-PATENT-4,346,754	c 34	N83-34221 *	US-PATENT-4,392,356	c 34	N83-29625 *
US-PATENT-4,300,723	c 34	N82-13376 *	US-PATENT-4,346,990	c 36	N82-32712 *	US-PATENT-4,392,749	c 35	N83-29651 *
US-PATENT-4,301,740	c 37	N82-21587 *	US-PATENT-4,347,613	c 36	N83-10417 *	US-PATENT-4,392,874	c 35	N83-29652 *
US-PATENT-4,302,223	c 25	N82-21269 *	US-PATENT-4,349,424	c 24	N83-10117 *	US-PATENT-4,392,920	c 27	N83-29388 *
US-PATENT-4,302,734	c 33	N82-16340 *	US-PATENT-4,349,424	c 70	N84-28565 *	US-PATENT-4,393,039	c 25	N83-29324 *
US-PATENT-4,303,961	c 28	N82-18401 *	US-PATENT-4,349,429	c 25	N83-10126 *	US-PATENT-4,393,706	c 71	N83-32516 *
US-PATENT-4,304,219	c 44	N82-18686 *	US-PATENT-4,349,954	c 26	N83-10170 *	US-PATENT-4,393,708	c 71	N83-32515 *
US-PATENT-4,304,320	c 37	N82-18601 *	US-PATENT-4,350,410	c 74	N83-10900 *	US-PATENT-4,393,716	c 39	N83-32081 *
US-PATENT-4,305,205	c 37	N82-26672 *	US-PATENT-4,350,574	c 44	N83-10494 *	US-PATENT-4,393,777	c 37	N84-12491 *
US-PATENT-4,307,024	c 25	N82-24312 *	US-PATENT-4,351,022	c 33	N83-10345 *	US-PATENT-4,394,610	c 33	N83-31953 *
US-PATENT-4,307,510	c 60	N82-24839 *	US-PATENT-4,355,311	c 32	N83-31918 *	US-PATENT-4,394,726	c 60	N83-32342 *
US-PATENT-4,307,575	c 44	N82-26776 *	US-PATENT-4,355,870	c 74	N83-13978 *	US-PATENT-4,394,819	c 35	N83-32026 *
US-PATENT-4,307,856	c 05	N82-26277 *	US-PATENT-4,355,896	c 47	N83-32232 *	US-PATENT-4,395,123	c 74	N83-32577 *
US-PATENT-4,308,309	c 27	N82-24339 *	US-PATENT-4,357,402	c 25	N83-13188 *	US-PATENT-4,395,503	c 27	N83-34043 *
US-PATENT-4,308,868	c 52	N82-29863 *	US-PATENT-4,358,358	c 25	N83-13187 *	US-PATENT-4,395,511	c 27	N84-14324 *
US-PATENT-4,309,039	c 37	N82-24490 *	US-PATENT-4,358,480	c 24	N83-31782 *	US-PATENT-4,395,540	c 27	N84-22746 *
US-PATENT-4,309,146	c 44	N82-24639 *	US-PATENT-4,358,486	c 24	N83-31717 *	US-PATENT-4,395,540	c 27	N85-20123 *
US-PATENT-4,309,372	c 25	N82-21268 *	US-PATENT-4,358,732	c 33	N83-18996 *	US-PATENT-4,395,557	c 27	N83-31854 *
US-PATENT-4,310,049	c 25	N82-23282 *	US-PATENT-4,358,846	c 32	N83-13323 *	US-PATENT-4,395,557	c 27	N84-22745 *
US-PATENT-4,310,132	c 24	N82-26384 *	US-PATENT-4,360,325	c 44	N83-14693 *	US-PATENT-4,395,557	c 27	N85-21347 *
US-PATENT-4,310,574	c 27	N82-28441 *	US-PATENT-4,360,701	c 44	N83-14692 *	US-PATENT-4,395,656	c 33	N83-31952 *
US-PATENT-4,310,906	c 33	N82-26572 *	US-PATENT-4,362,361	c 74	N83-17305 *	US-PATENT-4,396,918	c 04	N84-27713 *
US-PATENT-4,311,055	c 54	N82-26987 *	US-PATENT-4,362,769	c 27	N83-34039 *	US-PATENT-4,397,716	c 44	N83-34449 *
US-PATENT-4,311,057	c 37	N82-24493 *	US-PATENT-4,363,188	c 51	N83-17045 *	US-PATENT-4,398,021	c 27	N83-34041 *
US-PATENT-4,311,378	c 35	N82-26628 *	US-PATENT-4,363,237	c 71	N83-17235 *	US-PATENT-4,398,021	c 27	N85-20124 *
US-PATENT-4,311,615	c 25	N82-26396 *	US-PATENT-4,363,242	c 33	N83-16626 *	US-PATENT-4,398,129	c 33	N83-34189 *
US-PATENT-4,311,870	c 44	N82-26777 *	US-PATENT-4,366,680	c 31	N83-31897 *	US-PATENT-4,398,412	c 35	N84-28018 *
US-PATENT-4,312,292	c 37	N82-24492 *	US-PATENT-4,370,750	c 34	N83-19015 *	US-PATENT-4,398,667	c 71	N84-14873 *
US-PATENT-4,313,077	c 33	N82-26569 *	US-PATENT-4,371,301	c 37	N83-19091 *	US-PATENT-4,398,925	c 71	N83-35781 *
US-PATENT-4,313,103	c 33	N82-26570 *	US-PATENT-4,371,596	c 44	N83-32176 *	US-PATENT-4,399,415	c 36	N83-35350 *
US-PATENT-4,313,291	c 09	N82-29330 *	US-PATENT-4,371,873	c 32	N83-19968 *	US-PATENT-4,399,515	c 35	N84-14491 *
US-PATENT-4,313,726	c 09	N82-24212 *	US-PATENT-4,371,946	c 32	N83-18975 *	US-PATENT-4,400,191	c 31	N83-35176 *
US-PATENT-4,313,745	c 27	N82-28442 *	US-PATENT-4,372,110	c 07	N83-33884 *	US-PATENT-4,400,642	c 76	N83-34796 *
US-PATENT-4,313,777	c 33	N82-26571 *	US-PATENT-4,372,158	c 44	N83-21503 *	US-PATENT-4,400,657	c 33	N83-34190 *
US-PATENT-4,314,984	c 25	N82-28368 *	US-PATENT-4,372,159	c 44	N83-21504 *	US-PATENT-4,401,505	c 76	N83-35888 *
US-PATENT-4,315,194	c 33	N82-26568 *	US-PATENT-4,372,377	c 74	N83-19596 *	US-PATENT-4,401,934	c 33	N83-35227 *
US-PATENT-4,315,197	c 33	N82-24421 *	US-PATENT-4,372,680	c 35	N83-21311 *	US-PATENT-4,401,953	c 33	N83-34191 *
US-PATENT-4,315,266	c 32	N82-27558 *	US-PATENT-4,373,003	c 27	N83-18908 *	US-PATENT-4,402,221	c 71	N83-36846 *
US-PATENT-4,316,035	c 23	N82-28353 *	US-PATENT-4,373,039	c 27	N83-19900 *	US-PATENT-4,402,358	c 34	N83-35307 *
US-PATENT-4,317,102	c 35	N82-24470 *	US-PATENT-4,373,142	c 44	N83-32175 *	US-PATENT-4,402,447	c 35	N83-35338 *
US-PATENT-4,319,133	c 33	N82-28545 *	US-PATENT-4,373,989	c 76	N83-20789 *	US-PATENT-4,402,992	c 31	N83-35177 *
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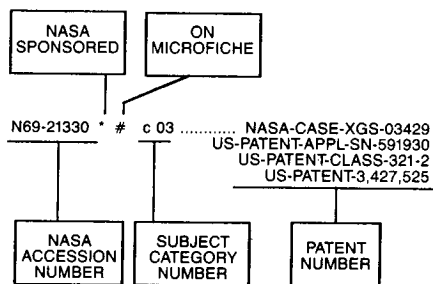
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N70-33311*	c 15	NASA-CASE-XLE-00046 US-PATENT-APPL-SN-686796 US-PATENT-CLASS-29-488 US-PATENT-3,008,229	N70-34161*	c 14	NASA-CASE-XLA-00203 US-PATENT-APPL-SN-227682 US-PATENT-CLASS-73-105 US-PATENT-3,208,272	N70-34699* #	c 15	NASA-CASE-NPO-10682 US-PATENT-APPL-SN-15023
N70-33312*	c 09	NASA-CASE-XLA-00141 US-PATENT-APPL-SN-19971 US-PATENT-CLASS-219-34 US-PATENT-3,005,081	N70-34162*	c 28	NASA-CASE-XMF-01544 US-PATENT-APPL-SN-394638 US-PATENT-CLASS-60-35.55 US-PATENT-3,208,215	N70-34705*	c 14	NASA-CASE-XMF-00456 US-PATENT-APPL-SN-298800 US-PATENT-CLASS-73-88.5 US-PATENT-3,212,325
N70-33322*	c 14	NASA-CASE-XLA-00135 US-PATENT-APPL-SN-861152 US-PATENT-CLASS-244-14 US-PATENT-3,004,735	N70-34175*	c 28	NASA-CASE-XLE-01783 US-PATENT-APPL-SN-313132 US-PATENT-CLASS-60-35.5 US-PATENT-3,210,927	N70-34743*	c 08	NASA-CASE-XGS-00174 US-PATENT-APPL-SN-120803 US-PATENT-CLASS-307-88 US-PATENT-3,198,955
N70-33323*	c 15	NASA-CASE-XMF-00341 US-PATENT-APPL-SN-77256 US-PATENT-CLASS-62-45 US-PATENT-3,012,407	N70-34176*	c 31	NASA-CASE-XMF-00389 US-PATENT-APPL-SN-151114 US-PATENT-CLASS-244-1 US-PATENT-3,202,381	N70-34778*	c 08	NASA-CASE-XLA-00471 US-PATENT-APPL-SN-197553 US-PATENT-CLASS-235-154 US-PATENT-3,194,951
N70-33329*	c 11	NASA-CASE-XLA-00119 US-PATENT-APPL-SN-842171 US-PATENT-CLASS-240-1.2 US-PATENT-2,984,735	N70-34178*	c 02	NASA-CASE-XLA-00166 US-PATENT-APPL-SN-84961 US-PATENT-CLASS-244-46 US-PATENT-3,087,692	N70-34783*	c 27	NASA-CASE-XLA-00304 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-18-39 US-PATENT-3,193,883
N70-33330*	c 15	NASA-CASE-XLE-00023 US-PATENT-APPL-SN-512352 US-PATENT-CLASS-78-1 US-PATENT-2,991,671	N70-34247*	c 15	NASA-CASE-XLE-00288 US-PATENT-APPL-SN-118200 US-PATENT-CLASS-62-50 US-PATENT-3,068,658	N70-34786*	c 11	NASA-CASE-XLA-00493 US-PATENT-APPL-SN-202029 US-PATENT-CLASS-73-432 US-PATENT-3,196,690
N70-33331*	c 28	NASA-CASE-XLA-00105 US-PATENT-APPL-SN-719173 US-PATENT-CLASS-60-35.6 US-PATENT-3,001,363	N70-34249*	c 15	NASA-CASE-XMF-00375 US-PATENT-APPL-SN-166969 US-PATENT-CLASS-72-56 US-PATENT-3,188,844	N70-34787*	c 08	NASA-CASE-XGS-00689 US-PATENT-APPL-SN-250451 US-PATENT-CLASS-235-176 US-PATENT-3,196,261
N70-33332*	c 02	NASA-CASE-XLA-00087 US-PATENT-APPL-SN-811509 US-PATENT-CLASS-244-12 US-PATENT-2,991,961	N70-34294*	c 28	NASA-CASE-XLE-00208 US-PATENT-APPL-SN-106135 US-PATENT-CLASS-60-35.54 US-PATENT-3,132,476	N70-34788*	c 28	NASA-CASE-XLE-00388 US-PATENT-APPL-SN-234568 US-PATENT-CLASS-55-306 US-PATENT-3,196,598
N70-33343*	c 03	NASA-CASE-XLA-00115 US-PATENT-APPL-SN-847027 US-PATENT-CLASS-244-1 US-PATENT-3,001,739	N70-34295*	c 21	NASA-CASE-XLA-01989 US-PATENT-APPL-SN-305020 US-PATENT-CLASS-244-1 US-PATENT-3,189,299	N70-34794*	c 14	NASA-CASE-XMF-00479 US-PATENT-APPL-SN-169977 US-PATENT-CLASS-73-71.2 US-PATENT-3,194,060
N70-33344*	c 33	NASA-CASE-XMS-00486 US-PATENT-APPL-SN-300113 US-PATENT-CLASS-244-1 US-PATENT-3,130,940	N70-34296*	c 31	NASA-CASE-XLA-00678 US-PATENT-APPL-SN-197551 US-PATENT-CLASS-244-1 US-PATENT-3,169,725	N70-34799*	c 14	NASA-CASE-XLA-00492 US-PATENT-APPL-SN-284265 US-PATENT-CLASS-73-88.5 US-PATENT-3,199,340
N70-33356*	c 28	NASA-CASE-XLE-00267 US-PATENT-APPL-SN-58147 US-PATENT-CLASS-60-35.5 US-PATENT-3,016,693	N70-34297*	c 21	NASA-CASE-XGS-00466 US-PATENT-APPL-SN-123597 US-PATENT-CLASS-250-83.3 US-PATENT-3,188,472	N70-34812*	c 33	NASA-CASE-XLE-00387 US-PATENT-APPL-SN-203411 US-PATENT-CLASS-219-19 US-PATENT-3,108,171
N70-33372*	c 28	NASA-CASE-XLE-00037 US-PATENT-APPL-SN-639589 US-PATENT-CLASS-253-39.15 US-PATENT-2,974,925	N70-34298*	c 14	NASA-CASE-XMF-00462 US-PATENT-APPL-SN-148001 US-PATENT-CLASS-88-14 US-PATENT-3,185,023	N70-34813*	c 14	NASA-CASE-XAC-00073 US-PATENT-APPL-SN-47122 US-PATENT-CLASS-73-147 US-PATENT-3,100,990
N70-33374*	c 28	NASA-CASE-XLA-00154 US-PATENT-APPL-SN-31242 US-PATENT-CLASS-60-35.6 US-PATENT-3,012,400	N70-34502*	c 09	NASA-CASE-XMF-00421 US-PATENT-APPL-SN-197548 US-PATENT-CLASS-317-140 US-PATENT-3,189,794	N70-34814*	c 15	NASA-CASE-XMF-00392 US-PATENT-APPL-SN-151112 US-PATENT-CLASS-219-137 US-PATENT-3,102,948
N70-33375*	c 28	NASA-CASE-XLE-00207 US-PATENT-APPL-SN-180370 US-PATENT-CLASS-60-35.6 US-PATENT-3,173,251	N70-34539*	c 21	NASA-CASE-XMF-00185 US-PATENT-APPL-SN-97112 US-PATENT-CLASS-244-76 US-PATENT-3,070,330	N70-34815*	c 11	NASA-CASE-XAC-00399 US-PATENT-APPL-SN-134481 US-PATENT-CLASS-35-12 US-PATENT-3,196,557
N70-33376*	c 15	NASA-CASE-XLE-00101 US-PATENT-APPL-SN-551961 US-PATENT-CLASS-251-173 US-PATENT-2,945,667	N70-34540*	c 33	NASA-CASE-XLA-00330 US-PATENT-APPL-SN-264729 US-PATENT-CLASS-219-121 US-PATENT-3,201,560	N70-34816*	c 14	NASA-CASE-XAC-00042 US-PATENT-APPL-SN-734805 US-PATENT-CLASS-73-398 US-PATENT-3,022,672
N70-33382*	c 15	NASA-CASE-XLE-00010 US-PATENT-APPL-SN-554899 US-PATENT-CLASS-266-19 US-PATENT-2,934,331	N70-34545*	c 33	NASA-CASE-XLE-00490 US-PATENT-APPL-SN-252259 US-PATENT-CLASS-219-347 US-PATENT-3,189,726	N70-34817*	c 15	NASA-CASE-XAC-00074 US-PATENT-APPL-SN-47123 US-PATENT-CLASS-137-340 US-PATENT-3,158,172
						N70-34818*	c 14	NASA-CASE-XLE-00503 US-PATENT-APPL-SN-261912 US-PATENT-CLASS-73-136 US-PATENT-3,196,675
						N70-34819*	c 09	NASA-CASE-XGS-00381 US-PATENT-APPL-SN-104188 US-PATENT-CLASS-307-88.5 US-PATENT-3,085,165
						N70-34820*	c 14	NASA-CASE-XAC-00030 US-PATENT-APPL-SN-760819

		US-PATENT-CLASS-73-401			US-PATENT-APPL-SN-178721			US-PATENT-3,150,387
		US-PATENT-3,024,659			US-PATENT-CLASS-310-5			NASA-CASE-XMF-00923
N70-34844*	c 11	NASA-CASE-XLE-00252			US-PATENT-3,205,381	N70-36802*	c 28	US-PATENT-APPL-SN-264736
		US-PATENT-APPL-SN-144803	N70-35409*	c 15	NASA-CASE-XHQ-01208			US-PATENT-CLASS-60-35.5
		US-PATENT-CLASS-73-116			US-PATENT-APPL-SN-42022			US-PATENT-3,159,967
N70-34850*	c 15	US-PATENT-3,199,343			US-PATENT-CLASS-121-38	N70-36803*	c 03	NASA-CASE-XNP-00644
		NASA-CASE-XLA-00754			US-PATENT-3,088,441			US-PATENT-APPL-SN-212496
		US-PATENT-APPL-SN-209479	N70-35422* #	c 28	NASA-CASE-LEW-10814-1			US-PATENT-CLASS-310-11
		US-PATENT-CLASS-244-100			US-PATENT-APPL-SN-38262			US-PATENT-3,158,764
		US-PATENT-3,143,321	N70-35423*	c 08	NASA-CASE-XNP-00432	N70-36804*	c 02	NASA-CASE-XLA-00898
N70-34856*	c 02	NASA-CASE-XAC-00139			US-PATENT-APPL-SN-127234			US-PATENT-APPL-SN-227683
		US-PATENT-APPL-SN-168560			US-PATENT-CLASS-340-347			US-PATENT-CLASS-244-152
		US-PATENT-CLASS-244-51			US-PATENT-3,172,097			US-PATENT-3,170,660
N70-34857*	c 05	US-PATENT-3,144,999	N70-35425*	c 09	NASA-CASE-XNP-00683	N70-36805*	c 26	NASA-CASE-XLA-00158
		NASA-CASE-XMS-00863			US-PATENT-APPL-SN-251451			US-PATENT-APPL-SN-221637
		US-PATENT-APPL-SN-221634			US-PATENT-CLASS-343-781			US-PATENT-CLASS-23-208
		US-PATENT-CLASS-9-11			US-PATENT-3,209,361			US-PATENT-3,174,827
N70-34858*	c 02	US-PATENT-3,155,992	N70-35427*	c 21	NASA-CASE-XGS-00809	N70-36806*	c 28	NASA-CASE-XLE-00145
		NASA-CASE-XLA-00806			US-PATENT-APPL-SN-85585			US-PATENT-APPL-SN-173081
		US-PATENT-APPL-SN-181828			US-PATENT-CLASS-88-1			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-26375			US-PATENT-3,083,611			US-PATENT-3,174,279
		US-PATENT-CLASS-244-46	N70-35440*	c 09	NASA-CASE-XAC-00435	N70-36807*	c 14	NASA-CASE-XLA-00100
N70-34859*	c 15	US-PATENT-3,170,657			US-PATENT-APPL-SN-164428			US-PATENT-APPL-SN-534901
		NASA-CASE-XLE-00715			US-PATENT-CLASS-330-14			US-PATENT-CLASS-73-178
		US-PATENT-APPL-SN-212174			US-PATENT-3,196,362			US-PATENT-3,168,827
		US-PATENT-CLASS-251-333	N70-35534*	c 27	NASA-CASE-XGS-03556	N70-36824*	c 14	NASA-CASE-XLA-00481
		US-PATENT-3,191,907			US-PATENT-APPL-SN-94259			US-PATENT-APPL-SN-120797
N70-34860*	c 28	NASA-CASE-XLE-00144			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-73-212
		US-PATENT-APPL-SN-177684			US-PATENT-3,191,379			US-PATENT-3,170,324
		US-PATENT-CLASS-60-35.6	N70-35587* #	c 14	NASA-CASE-FRC-10053	N70-36825*	c 02	NASA-CASE-XLA-01583
		US-PATENT-3,120,101			US-PATENT-APPL-SN-33398			US-PATENT-APPL-SN-327565
N70-34861*	c 15	NASA-CASE-XLE-00810	N70-35666*	c 14	NASA-CASE-XNP-00646			US-PATENT-CLASS-244-103
		US-PATENT-APPL-SN-249540			US-PATENT-APPL-SN-173981			US-PATENT-3,169,001
		US-PATENT-CLASS-188-1			US-PATENT-CLASS-324-33	N70-36845*	c 31	NASA-CASE-XMF-02108
		US-PATENT-3,164,222			US-PATENT-3,171,081			US-PATENT-APPL-SN-372727
N70-34946*	c 06	NASA-CASE-XNP-00733	N70-35679* #	c 15	NASA-CASE-MS-12279-1			US-PATENT-CLASS-244-100
		US-PATENT-APPL-SN-256484			US-PATENT-APPL-SN-24154			US-PATENT-3,181,821
		US-PATENT-CLASS-62-15	N70-36400*	c 18	NASA-CASE-XMS-00259	N70-36846*	c 33	NASA-CASE-XLA-00189
		US-PATENT-3,192,730			US-PATENT-APPL-SN-145007			US-PATENT-APPL-SN-223003
N70-34966*	c 31	NASA-CASE-XFR-00929			US-PATENT-CLASS-117-69			US-PATENT-CLASS-102-49
		US-PATENT-APPL-SN-290868			US-PATENT-3,157,529			US-PATENT-3,180,264
		US-PATENT-CLASS-35-12	N70-36409*	c 15	NASA-CASE-XLA-00482	N70-36847*	c 33	NASA-CASE-XNP-00463
		US-PATENT-3,191,316			US-PATENT-APPL-SN-166970			US-PATENT-APPL-SN-259487
N70-34967*	c 15	NASA-CASE-XNP-00595			US-PATENT-CLASS-29-423			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-188594			US-PATENT-3,160,950			US-PATENT-3,177,933
		US-PATENT-CLASS-204-298	N70-36410*	c 31	NASA-CASE-XMF-00641	N70-36901*	c 15	NASA-CASE-XFR-00811
		US-PATENT-3,189,535			US-PATENT-APPL-SN-221945			US-PATENT-APPL-SN-257346
N70-35087*	c 15	NASA-CASE-XGS-00587			US-PATENT-CLASS-244-1			US-PATENT-CLASS-29-234
		US-PATENT-APPL-SN-313135			US-PATENT-3,158,336			US-PATENT-3,166,834
		US-PATENT-CLASS-137-340	N70-36411*	c 15	NASA-CASE-XLE-00164	N70-36907*	c 14	NASA-CASE-XNP-00614
		US-PATENT-3,211,169			US-PATENT-APPL-SN-107870			US-PATENT-APPL-SN-247419
N70-35089*	c 21	NASA-CASE-XNP-00438			US-PATENT-CLASS-60-39.66			US-PATENT-CLASS-33-1
		US-PATENT-APPL-SN-180381			US-PATENT-3,162,012			US-PATENT-3,163,935
		US-PATENT-CLASS-250-203	N70-36412*	c 15	NASA-CASE-XLE-00170	N70-36908*	c 15	NASA-CASE-XNP-00214
		US-PATENT-3,205,362			US-PATENT-APPL-SN-232914			US-PATENT-APPL-SN-180377
N70-35152*	c 05	NASA-CASE-XMS-01240			US-PATENT-CLASS-253-66			US-PATENT-CLASS-137-625.69
		US-PATENT-APPL-SN-331324			US-PATENT-3,164,369			US-PATENT-3,140,728
		US-PATENT-CLASS-297-216	N70-36492*	c 15	NASA-CASE-XLE-000397	N70-36910*	c 28	NASA-CASE-XNP-00610
		US-PATENT-3,165,356			US-PATENT-CLASS-137-614			US-PATENT-APPL-SN-211464
N70-35219*	c 09	NASA-CASE-XNP-00611			US-PATENT-3,170,486			US-PATENT-CLASS-60-35.6
		US-PATENT-APPL-SN-140443			US-PATENT-3,170,486	N70-36911*	c 07	NASA-CASE-XNP-00748
		US-PATENT-CLASS-343-781			US-PATENT-APPL-SN-258932			US-PATENT-APPL-SN-184649
		US-PATENT-3,209,360			US-PATENT-CLASS-9-316			US-PATENT-CLASS-343-17.2
N70-35220*	c 14	NASA-CASE-XNP-00449			US-PATENT-3,152,344			US-PATENT-3,183,506
		US-PATENT-APPL-SN-118169	N70-36494*	c 09	NASA-CASE-XMF-00369	N70-36913*	c 11	NASA-CASE-XMF-00411
		US-PATENT-CLASS-330-49			US-PATENT-APPL-SN-134782			US-PATENT-APPL-SN-158914
		US-PATENT-3,160,825			US-PATENT-CLASS-339-176			US-PATENT-CLASS-73-147
N70-35368*	c 14	NASA-CASE-XLE-00035			US-PATENT-3,149,897			US-PATENT-3,182,496
		US-PATENT-APPL-SN-197554	N70-36535*	c 15	NASA-CASE-XLE-000303	N70-36938*	c 21	NASA-CASE-XNP-00294
		US-PATENT-CLASS-73-15.6			US-PATENT-APPL-SN-182692			US-PATENT-APPL-SN-182696
		US-PATENT-3,176,499			US-PATENT-CLASS-60-35.6			US-PATENT-CLASS-60-35.5
N70-35381*	c 28	NASA-CASE-XHQ-01897			US-PATENT-3,170,286			US-PATENT-3,178,883
		US-PATENT-APPL-SN-129579	N70-36536*	c 32	NASA-CASE-XLA-00204	N70-36943*	c 21	NASA-CASE-XLA-00281
		US-PATENT-CLASS-60-35.6			US-PATENT-APPL-SN-189648			US-PATENT-APPL-SN-84962
		US-PATENT-3,121,309			US-PATENT-CLASS-135-1			US-PATENT-CLASS-244-1
N70-35382*	c 09	NASA-CASE-XNP-00540			US-PATENT-3,170,471			US-PATENT-3,180,587
		US-PATENT-APPL-SN-140509			NASA-CASE-XLE-00283	N70-36946*	c 25	NASA-CASE-XLA-01354
		US-PATENT-CLASS-343-781			US-PATENT-APPL-SN-107866			US-PATENT-APPL-SN-253774
		US-PATENT-3,212,096			US-PATENT-CLASS-75-171			US-PATENT-CLASS-60-35.5
N70-35383*	c 11	NASA-CASE-XMF-00580			US-PATENT-3,167,426			US-PATENT-3,174,278
		US-PATENT-APPL-SN-343425	N70-36617*	c 33	NASA-CASE-XLA-01291	N70-36947*	c 15	NASA-CASE-XNP-00416
		US-PATENT-CLASS-248-119			US-PATENT-APPL-SN-277961			US-PATENT-APPL-SN-180395
		US-PATENT-3,194,525			US-PATENT-CLASS-244-1			US-PATENT-CLASS-189-36
N70-35394*	c 14	NASA-CASE-XNP-00708			US-PATENT-3,176,933			US-PATENT-3,169,613
		US-PATENT-APPL-SN-281069			NASA-CASE-XLE-00143	N70-37245*	c 28	NASA-CASE-XLE-00376
		US-PATENT-CLASS-35-45			US-PATENT-APPL-SN-104187			US-PATENT-APPL-SN-139007
		US-PATENT-3,196,558			US-PATENT-CLASS-324-61			US-PATENT-CLASS-60-35.5
N70-35395*	c 21	NASA-CASE-XNP-00465			US-PATENT-3,176,222			US-PATENT-3,156,090
		US-PATENT-APPL-SN-180379	N70-36654*	c 31	NASA-CASE-XMF-02853	N70-37924*	c 31	NASA-CASE-XGS-00260
		US-PATENT-CLASS-244-1			US-PATENT-APPL-SN-360182			US-PATENT-APPL-SN-187446
		US-PATENT-3,206,141			US-PATENT-CLASS-244-100			US-PATENT-CLASS-244-1
N70-35407*	c 15	NASA-CASE-XLE-00815			US-PATENT-3,175,789			US-PATENT-3,090,580
		US-PATENT-APPL-SN-300712	N70-36778*	c 03	NASA-CASE-XLA-00838	N70-37925*	c 15	NASA-CASE-XLA-00128
		US-PATENT-CLASS-251-11			US-PATENT-APPL-SN-192016			US-PATENT-APPL-SN-32496
		US-PATENT-3,211,414			US-PATENT-CLASS-9-8			US-PATENT-CLASS-73-384
N70-35408*	c 03	NASA-CASE-XGS-01593						

N70-37938*	c 31	US-PATENT-3,093,000 NASA-CASE-XLA-00149 US-PATENT-APPL-SN-847023 US-PATENT-CLASS-244-1 US-PATENT-3,093,346	N70-38601*	c 15	US-PATENT-3,135,090 NASA-CASE-XLA-00679 US-PATENT-APPL-SN-213836 US-PATENT-CLASS-188-1 US-PATENT-3,128,845	N70-39925*	c 28	US-PATENT-3,229,884 NASA-CASE-XLE-00660 US-PATENT-APPL-SN-231604 US-PATENT-CLASS-313-11.5 US-PATENT-3,229,139
N70-37939*	c 02	NASA-CASE-XLE-00222 US-PATENT-APPL-SN-77252 US-PATENT-CLASS-244-113 US-PATENT-3,098,630	N70-38602*	c 14	NASA-CASE-XLE-00243 US-PATENT-APPL-SN-118203 US-PATENT-CLASS-324-106 US-PATENT-3,202,915	N70-39930*	c 03	NASA-CASE-XLA-00791 US-PATENT-APPL-SN-347960 US-PATENT-CLASS-102-49 US-PATENT-3,229,636
N70-37979*	c 33	NASA-CASE-XLA-00349 US-PATENT-APPL-SN-141220 US-PATENT-CLASS-62-467 US-PATENT-3,090,212	N70-38603*	c 15	NASA-CASE-XNP-00450 US-PATENT-APPL-SN-180394 US-PATENT-CLASS-137-495 US-PATENT-3,105,515	N70-39931*	c 28	NASA-CASE-XNP-01104 US-PATENT-APPL-SN-290867 US-PATENT-CLASS-60-39.48 US-PATENT-3,229,463
N70-37980*	c 28	NASA-CASE-XLE-00342 US-PATENT-APPL-SN-60531 US-PATENT-CLASS-60-35.5 US-PATENT-3,119,232	N70-38604*	c 09	NASA-CASE-XGS-00458 US-PATENT-APPL-SN-139006 US-PATENT-CLASS-307-88 US-PATENT-3,128,389	N70-40003*	c 14	NASA-CASE-XGS-01036 US-PATENT-APPL-SN-227692 US-PATENT-CLASS-88-14 US-PATENT-3,229,568
N70-37981*	c 31	NASA-CASE-XLA-00138 US-PATENT-APPL-SN-8204 US-PATENT-CLASS-343-18 US-PATENT-3,115,630	N70-38620*	c 15	NASA-CASE-XNP-00476 US-PATENT-APPL-SN-182698 US-PATENT-CLASS-308-9 US-PATENT-3,132,903	N70-40015*	c 26	NASA-CASE-XLA-02057 US-PATENT-APPL-SN-320595 US-PATENT-CLASS-23-277 US-PATENT-3,230,053
N70-37986*	c 31	NASA-CASE-XLA-00241 US-PATENT-APPL-SN-61329 US-PATENT-CLASS-244-1 US-PATENT-3,104,079	N70-38645*	c 28	NASA-CASE-XNP-00234 US-PATENT-APPL-SN-180382 US-PATENT-CLASS-60-35.54 US-PATENT-3,139,725	N70-40016*	c 30	NASA-CASE-XGS-00619 US-PATENT-APPL-SN-264728 US-PATENT-CLASS-244-1 US-PATENT-3,229,930
N70-38009*	c 02	NASA-CASE-XLA-00195 US-PATENT-APPL-SN-60536 US-PATENT-CLASS-244-140 US-PATENT-3,079,113	N70-38675*	c 11	NASA-CASE-XNP-00459 US-PATENT-APPL-SN-180384 US-PATENT-CLASS-73-432 US-PATENT-3,187,583	N70-40062*	c 15	NASA-CASE-XMS-01624 US-PATENT-APPL-SN-422867 US-PATENT-CLASS-55-408 US-PATENT-3,224,173
N70-38010*	c 31	NASA-CASE-XLA-00805 US-PATENT-APPL-SN-181829 US-PATENT-CLASS-244-46 US-PATENT-3,120,361	N70-38676*	c 31	NASA-CASE-XLA-00258 US-PATENT-APPL-SN-101029 US-PATENT-CLASS-244-1 US-PATENT-3,144,219	N70-40063*	c 07	NASA-CASE-XMS-00893 US-PATENT-APPL-SN-251449 US-PATENT-CLASS-343-18 US-PATENT-3,224,001
N70-38011*	c 02	NASA-CASE-XLA-00350 US-PATENT-APPL-SN-153266 US-PATENT-CLASS-244-46 US-PATENT-3,104,082	N70-38710*	c 28	NASA-CASE-XMF-00148 US-PATENT-APPL-SN-118202 US-PATENT-CLASS-60-35.6 US-PATENT-3,122,885	N70-40123*	c 09	NASA-CASE-XGS-01881 US-PATENT-APPL-SN-155584 US-PATENT-CLASS-324-43 US-PATENT-3,218,547
N70-38020*	c 15	NASA-CASE-XLE-00345 US-PATENT-APPL-SN-183978 US-PATENT-CLASS-62-55 US-PATENT-3,122,000	N70-38711*	c 28	NASA-CASE-XLE-00057 US-PATENT-APPL-SN-0914 US-PATENT-CLASS-60-35.55 US-PATENT-3,080,711	N70-40124*	c 12	NASA-CASE-XLE-01512 US-PATENT-APPL-SN-315096 US-PATENT-CLASS-149-2 US-PATENT-3,215,572
N70-38181*	c 28	NASA-CASE-XNP-00217 US-PATENT-APPL-SN-180374 US-PATENT-CLASS-102-49 US-PATENT-3,122,058	N70-38712*	c 09	NASA-CASE-XMF-01129 US-PATENT-APPL-SN-273534 US-PATENT-CLASS-318-260 US-PATENT-3,147,422	N70-40125*	c 08	NASA-CASE-XAC-00404 US-PATENT-APPL-SN-209801 US-PATENT-CLASS-340-347 US-PATENT-3,216,007
N70-38182*	c 11	NASA-CASE-XNP-00612 US-PATENT-APPL-SN-228507 US-PATENT-CLASS-220-63 US-PATENT-3,123,248	N70-38713*	c 03	NASA-CASE-XGS-00473 US-PATENT-APPL-SN-139012 US-PATENT-CLASS-200-39 US-PATENT-3,141,932	N70-40156*	c 15	NASA-CASE-XLA-01019 US-PATENT-APPL-SN-282817 US-PATENT-CLASS-248-358 US-PATENT-3,223,374
N70-38196*	c 11	NASA-CASE-XMF-00424 US-PATENT-APPL-SN-159804 US-PATENT-CLASS-73-517 US-PATENT-3,141,340	N70-38995*	c 09	NASA-CASE-XGS-00131 US-PATENT-APPL-SN-14488 US-PATENT-CLASS-331-113 US-PATENT-3,150,329	N70-40157*	c 14	NASA-CASE-XLA-00487 US-PATENT-APPL-SN-236748 US-PATENT-CLASS-73-178 US-PATENT-3,221,549
N70-38197*	c 28	NASA-CASE-XLE-00455 US-PATENT-APPL-SN-203409 US-PATENT-CLASS-75-222 US-PATENT-3,141,769	N70-38996*	c 15	NASA-CASE-XNP-00676 US-PATENT-APPL-SN-290870 US-PATENT-CLASS-222-389 US-PATENT-3,170,605	N70-40180*	c 15	NASA-CASE-XAC-00472 US-PATENT-APPL-SN-236749 US-PATENT-CLASS-73-142 US-PATENT-3,224,263
N70-38198*	c 17	NASA-CASE-XLE-00231 US-PATENT-APPL-SN-64226 US-PATENT-CLASS-22-203 US-PATENT-3,138,837	N70-38997*	c 12	NASA-CASE-XMF-00658 US-PATENT-APPL-SN-216710 US-PATENT-CLASS-137-1 US-PATENT-3,110,318	N70-40201*	c 14	NASA-CASE-XLE-00720 US-PATENT-APPL-SN-302749 US-PATENT-CLASS-73-134 US-PATENT-3,221,547
N70-38199*	c 28	NASA-CASE-XLE-00111 US-PATENT-APPL-SN-835152 US-PATENT-CLASS-60-39.48 US-PATENT-3,136,123	N70-38998*	c 09	NASA-CASE-XNP-00431 US-PATENT-APPL-SN-180380 US-PATENT-CLASS-340-147 US-PATENT-3,100,294	N70-40202*	c 07	NASA-CASE-XMF-00437 US-PATENT-APPL-SN-202795 US-PATENT-CLASS-343-705 US-PATENT-3,077,599
N70-38200*	c 07	NASA-CASE-XLA-00414 US-PATENT-APPL-SN-209478 US-PATENT-CLASS-343-705 US-PATENT-3,132,342	N70-39895*	c 28	NASA-CASE-XLE-00085 US-PATENT-APPL-SN-25175 US-PATENT-CLASS-253-66 US-PATENT-3,070,349	N70-40203*	c 14	NASA-CASE-XLE-00702 US-PATENT-APPL-SN-258931 US-PATENT-CLASS-73-116 US-PATENT-3,201,980
N70-38201*	c 09	NASA-CASE-XNP-00738 US-PATENT-APPL-SN-204015 US-PATENT-CLASS-174-115 US-PATENT-3,106,603	N70-39896*	c 15	NASA-CASE-XMF-00339 US-PATENT-APPL-SN-110591 US-PATENT-CLASS-308-9 US-PATENT-3,070,407	N70-40204*	c 15	NASA-CASE-XMF-00722 US-PATENT-APPL-SN-347626 US-PATENT-CLASS-228-50 US-PATENT-3,219,250
N70-38202*	c 11	NASA-CASE-XNP-00425 US-PATENT-APPL-SN-180396 US-PATENT-CLASS-89-1.7 US-PATENT-3,112,672	N70-39897*	c 18	NASA-CASE-XLE-00353 US-PATENT-APPL-SN-65548 US-PATENT-CLASS-252-58 US-PATENT-3,072,574	N70-40233*	c 14	NASA-CASE-XMS-01546 US-PATENT-APPL-SN-386467 US-PATENT-CLASS-222-45 US-PATENT-3,228,558
N70-38225*	c 15	NASA-CASE-XNP-00840 US-PATENT-APPL-SN-269222 US-PATENT-CLASS-267-1 US-PATENT-3,127,157	N70-39898*	c 14	NASA-CASE-XMF-00480 US-PATENT-APPL-SN-144804 US-PATENT-CLASS-248-346 US-PATENT-3,069,123	N70-40234*	c 09	NASA-CASE-XLE-01716 US-PATENT-APPL-SN-349778 US-PATENT-CLASS-126-270 US-PATENT-3,229,682
N70-38249*	c 28	NASA-CASE-XNP-00249 US-PATENT-APPL-SN-180391 US-PATENT-CLASS-60-35.6 US-PATENT-3,120,738	N70-39899*	c 28	NASA-CASE-XLE-00005 US-PATENT-APPL-SN-718095 US-PATENT-CLASS-60-35.6 US-PATENT-3,067,573	N70-40238*	c 14	NASA-CASE-XMF-00908 US-PATENT-APPL-SN-241085 US-PATENT-CLASS-250-201 US-PATENT-3,229,099
N70-38490*	c 17	NASA-CASE-XLE-00228 US-PATENT-APPL-SN-64224 US-PATENT-CLASS-29-183.5 US-PATENT-3,084,421	N70-39915*	c 09	NASA-CASE-XAC-00060 US-PATENT-APPL-SN-47121 US-PATENT-CLASS-200-19 US-PATENT-3,076,065	N70-40239*	c 14	NASA-CASE-XLA-00183 US-PATENT-APPL-SN-199202 US-PATENT-CLASS-250-203 US-PATENT-3,229,102
N70-38504*	c 28	NASA-CASE-XMS-00583 US-PATENT-APPL-SN-182699 US-PATENT-CLASS-60-35.6 US-PATENT-3,135,089	N70-39922*	c 05	NASA-CASE-XMS-01115 US-PATENT-APPL-SN-277404 US-PATENT-CLASS-128-29 US-PATENT-3,229,689	N70-40240*	c 14	NASA-CASE-XHQ-04106 US-PATENT-APPL-SN-91180 US-PATENT-CLASS-250-105 US-PATENT-3,143,651
N70-38505*	c 28	NASA-CASE-XLE-00323 US-PATENT-APPL-SN-183977 US-PATENT-CLASS-60-35.6	N70-39924*	c 15	NASA-CASE-XMF-00640 US-PATENT-APPL-SN-341467 US-PATENT-CLASS-228-50	N70-40272*	c 09	NASA-CASE-XMF-00701 US-PATENT-APPL-SN-261917 US-PATENT-CLASS-307-88.5

N70-40273*	c 14	US-PATENT-3,218,479 NASA-CASE-XNP-00637 US-PATENT-APPL-SN-280776 US-PATENT-CLASS-95-58 US-PATENT-3,217,624	N70-41580*	c 03	US-PATENT-3,295,556 NASA-CASE-XLA-04622 US-PATENT-APPL-SN-277833 US-PATENT-CLASS-126-270 US-PATENT-3,295,512	N70-41811*	c 15	US-PATENT-3,287,031 NASA-CASE-XNP-01152 US-PATENT-APPL-SN-369337 US-PATENT-CLASS-137-539 US-PATENT-3,302,662
N70-40309*	c 30	NASA-CASE-XLA-00210 US-PATENT-APPL-SN-82658 US-PATENT-CLASS-343-18 US-PATENT-3,220,004	N70-41581*	c 05	NASA-CASE-XAC-01404 US-PATENT-APPL-SN-363348 US-PATENT-CLASS-74-471 US-PATENT-3,295,386	N70-41812*	c 14	NASA-CASE-XMS-03792 US-PATENT-APPL-SN-516159 US-PATENT-CLASS-200-61.45 US-PATENT-3,303,304
N70-40353*	c 30	NASA-CASE-XMF-03198 US-PATENT-APPL-SN-370134 US-PATENT-CLASS-89-1.7 US-PATENT-3,224,336	N70-41582*	c 28	NASA-CASE-XMF-01813 US-PATENT-APPL-SN-375674 US-PATENT-CLASS-181-52 US-PATENT-3,270,835	N70-41818*	c 28	NASA-CASE-XLE-00150 US-PATENT-APPL-SN-843032 US-PATENT-CLASS-29-157.3 US-PATENT-3,035,333
N70-40354*	c 15	NASA-CASE-XMF-01045 US-PATENT-APPL-SN-355130 US-PATENT-CLASS-188-1 US-PATENT-3,228,492	N70-41583*	c 18	NASA-CASE-XMF-01030 US-PATENT-APPL-SN-317389 US-PATENT-CLASS-161-115 US-PATENT-3,296,060	N70-41819*	c 05	NASA-CASE-XAC-00405 US-PATENT-APPL-SN-158916 US-PATENT-CLASS-128-1 US-PATENT-3,302,633
N70-40367*	c 28	NASA-CASE-XLE-00177 US-PATENT-APPL-SN-10812 US-PATENT-CLASS-60-35.3 US-PATENT-3,045,424	N70-41588*	c 31	NASA-CASE-XMF-01973 US-PATENT-APPL-SN-375682 US-PATENT-CLASS-244-1 US-PATENT-3,295,790	N70-41829*	c 15	NASA-CASE-XMF-01371 US-PATENT-APPL-SN-353634 US-PATENT-CLASS-287-119 US-PATENT-3,302,960
N70-40400*	c 14	NASA-CASE-XAC-00648 US-PATENT-APPL-SN-216939 US-PATENT-CLASS-73-147 US-PATENT-3,218,850	N70-41589*	c 02	NASA-CASE-XMF-01174 US-PATENT-APPL-SN-410331 US-PATENT-CLASS-244-100 US-PATENT-3,295,798	N70-41855*	c 31	NASA-CASE-XNP-02982 US-PATENT-APPL-SN-388966 US-PATENT-CLASS-244-1 US-PATENT-3,304,028
N70-41275*	c 28	NASA-CASE-XNP-01390 US-PATENT-APPL-SN-424157 US-PATENT-CLASS-60-259 US-PATENT-3,300,981	N70-41628*	c 25	NASA-CASE-XAC-00319 US-PATENT-APPL-SN-77251 US-PATENT-CLASS-315-111 US-PATENT-3,229,155	N70-41856*	c 21	NASA-CASE-XNP-01307 US-PATENT-APPL-SN-390250 US-PATENT-CLASS-244-1 US-PATENT-3,286,953
N70-41297*	c 05	NASA-CASE-XMS-01492 US-PATENT-APPL-SN-398131 US-PATENT-CLASS-55-35 US-PATENT-3,300,949	N70-41629*	c 15	NASA-CASE-XGS-02441 US-PATENT-APPL-SN-411944 US-PATENT-CLASS-285-331 US-PATENT-3,301,578	N70-41863*	c 02	NASA-CASE-XLA-01220 US-PATENT-APPL-SN-379417 US-PATENT-CLASS-244-16 US-PATENT-3,286,957
N70-41310*	c 15	NASA-CASE-XNP-01567 US-PATENT-APPL-SN-448898 US-PATENT-CLASS-248-178 US-PATENT-3,295,808	N70-41630*	c 02	NASA-CASE-XMS-00907 US-PATENT-APPL-SN-428890 US-PATENT-CLASS-244-138 US-PATENT-3,301,511	N70-41864*	c 03	NASA-CASE-XGS-01419 US-PATENT-APPL-SN-323182 US-PATENT-CLASS-136-179 US-PATENT-3,287,174
N70-41311*	c 28	NASA-CASE-XNP-00876 US-PATENT-APPL-SN-377784 US-PATENT-CLASS-60-251 US-PATENT-3,298,182	N70-41631*	c 31	NASA-CASE-XMS-04142 US-PATENT-APPL-SN-422865 US-PATENT-CLASS-244-1 US-PATENT-3,301,507	N70-41871*	c 31	NASA-CASE-XMS-04390 US-PATENT-APPL-SN-502729 US-PATENT-CLASS-62-45 US-PATENT-3,304,729
N70-41329*	c 05	NASA-CASE-XMS-01615 US-PATENT-APPL-SN-329595 US-PATENT-CLASS-128-2.05 US-PATENT-3,298,362	N70-41646*	c 15	NASA-CASE-XLE-01449 US-PATENT-APPL-SN-330209 US-PATENT-CLASS-137-197 US-PATENT-3,295,545	N70-41897*	c 27	NASA-CASE-XNP-01749 US-PATENT-APPL-SN-440033 US-PATENT-CLASS-149-109 US-PATENT-3,305,415
N70-41330*	c 14	NASA-CASE-XLE-00688 US-PATENT-APPL-SN-334672 US-PATENT-CLASS-73-32 US-PATENT-3,298,221	N70-41647*	c 14	NASA-CASE-XGS-00769 US-PATENT-APPL-SN-319893 US-PATENT-CLASS-242-55.19 US-PATENT-3,295,782	N70-41922*	c 28	NASA-CASE-XNP-02839 US-PATENT-APPL-SN-477333 US-PATENT-CLASS-60-202 US-PATENT-3,304,718
N70-41331*	c 07	NASA-CASE-XLA-01400 US-PATENT-APPL-SN-363653 US-PATENT-CLASS-325-65 US-PATENT-3,296,531	N70-41655*	c 09	NASA-CASE-XMF-00906 US-PATENT-APPL-SN-264731 US-PATENT-CLASS-324-113 US-PATENT-3,287,640	N70-41929*	c 09	NASA-CASE-XNP-01951 US-PATENT-APPL-SN-413662 US-PATENT-CLASS-335-300 US-PATENT-3,305,810
N70-41332*	c 14	NASA-CASE-XLA-00495 US-PATENT-APPL-SN-269215 US-PATENT-CLASS-324-70 US-PATENT-3,296,526	N70-41675*	c 09	NASA-CASE-XMS-01315 US-PATENT-APPL-SN-347101 US-PATENT-CLASS-307-88.5 US-PATENT-3,302,040	N70-41930*	c 21	NASA-CASE-XNP-01501 US-PATENT-APPL-SN-432027 US-PATENT-CLASS-343-12 US-PATENT-3,305,861
N70-41366*	c 14	NASA-CASE-XLA-01353 US-PATENT-APPL-SN-403960 US-PATENT-CLASS-73-147 US-PATENT-3,301,046	N70-41676*	c 14	NASA-CASE-XGS-01231 US-PATENT-APPL-SN-346356 US-PATENT-CLASS-250-71 US-PATENT-3,302,023	N70-41946*	c 14	NASA-CASE-XLE-00011 US-PATENT-APPL-SN-735911 US-PATENT-CLASS-88-14 US-PATENT-2,960,002
N70-41367*	c 32	NASA-CASE-XGS-00938 US-PATENT-APPL-SN-392970 US-PATENT-CLASS-214-1 US-PATENT-3,295,699	N70-41677*	c 11	NASA-CASE-XMF-01772 US-PATENT-APPL-SN-370135 US-PATENT-CLASS-73-116 US-PATENT-3,295,366	N70-41948*	c 31	NASA-CASE-XMF-01899 US-PATENT-APPL-SN-428882 US-PATENT-CLASS-60-257 US-PATENT-3,304,724
N70-41370*	c 32	NASA-CASE-XNP-01962 US-PATENT-APPL-SN-369640 US-PATENT-CLASS-92-94 US-PATENT-3,298,285	N70-41678*	c 07	NASA-CASE-XGS-02608 US-PATENT-APPL-SN-456578 US-PATENT-CLASS-343-18 US-PATENT-3,289,205	N70-41954*	c 03	NASA-CASE-XAC-03392 US-PATENT-APPL-SN-430776 US-PATENT-CLASS-74-519 US-PATENT-3,304,799
N70-41371*	c 15	NASA-CASE-XMF-01452 US-PATENT-APPL-SN-356692 US-PATENT-CLASS-29-271 US-PATENT-3,300,847	N70-41679*	c 15	NASA-CASE-XLA-01441 US-PATENT-APPL-SN-516151 US-PATENT-CLASS-102-49 US-PATENT-3,302,569	N70-41955*	c 14	NASA-CASE-XNP-02029 US-PATENT-APPL-SN-221276 US-PATENT-CLASS-88-14 US-PATENT-3,323,408
N70-41372*	c 07	NASA-CASE-XLA-01127 US-PATENT-APPL-SN-363654 US-PATENT-CLASS-325-65 US-PATENT-3,300,731	N70-41680*	c 07	NASA-CASE-XNP-02723 US-PATENT-APPL-SN-371857 US-PATENT-CLASS-343-14 US-PATENT-3,287,725	N70-41957*	c 14	NASA-CASE-XAC-01101 US-PATENT-APPL-SN-355129 US-PATENT-CLASS-73-141 US-PATENT-3,304,773
N70-41373*	c 31	NASA-CASE-XMS-01906 US-PATENT-APPL-SN-339040 US-PATENT-CLASS-244-1 US-PATENT-3,300,162	N70-41681*	c 14	NASA-CASE-XAC-02877 US-PATENT-APPL-SN-449902 US-PATENT-CLASS-73-30 US-PATENT-3,295,360	N70-41960*	c 15	NASA-CASE-XNP-05082 US-PATENT-APPL-SN-521753 US-PATENT-CLASS-174-68.5 US-PATENT-3,321,570
N70-41447*	c 28	NASA-CASE-XNP-00732 US-PATENT-APPL-SN-261918 US-PATENT-CLASS-210-314 US-PATENT-3,295,684	N70-41682*	c 14	NASA-CASE-XMS-05936 US-PATENT-APPL-SN-557868 US-PATENT-CLASS-73-517 US-PATENT-3,295,377	N70-41961*	c 08	NASA-CASE-XNP-00911 US-PATENT-APPL-SN-280777 US-PATENT-CLASS-178-67 US-PATENT-3,305,636
N70-41576*	c 28	NASA-CASE-XLE-00519 US-PATENT-APPL-SN-249542 US-PATENT-CLASS-313-63 US-PATENT-3,287,582	N70-41717*	c 09	NASA-CASE-XMS-02087 US-PATENT-APPL-SN-439489 US-PATENT-CLASS-165-1 US-PATENT-3,301,315	N70-41964*	c 10	NASA-CASE-XGS-01983 US-PATENT-APPL-SN-388023 US-PATENT-CLASS-333-79 US-PATENT-3,305,801
N70-41578*	c 16	NASA-CASE-XGS-01504 US-PATENT-APPL-SN-340113 US-PATENT-CLASS-331-94 US-PATENT-3,287,660	N70-41807*	c 14	NASA-CASE-XNP-01472 US-PATENT-APPL-SN-321656 US-PATENT-CLASS-178-7.2 US-PATENT-3,287,496	N70-41967*	c 28	NASA-CASE-XLA-02651 US-PATENT-APPL-SN-449901 US-PATENT-CLASS-102-49 US-PATENT-3,304,865
N70-41579*	c 32	NASA-CASE-XLE-00620 US-PATENT-APPL-SN-304698 US-PATENT-CLASS-138-119	N70-41808*	c 15	NASA-CASE-XMS-02532 US-PATENT-APPL-SN-398132 US-PATENT-CLASS-285-27	N70-41991*	c 10	NASA-CASE-XNP-03128 US-PATENT-APPL-SN-397665 US-PATENT-CLASS-250-83.6

N70-41992*	c 28	US-PATENT-3,321,628 NASA-CASE-XLE-00685 US-PATENT-APPL-SN-407595 US-PATENT-CLASS-60-260 US-PATENT-3,321,922	N71-10616*	c 14	US-PATENT-3,311,315 NASA-CASE-XMF-02433 US-PATENT-APPL-SN-405630 US-PATENT-CLASS-73-70.2 US-PATENT-3,310,978	N71-10781*	c 14	US-PATENT-3,316,716 NASA-CASE-XLE-01481 US-PATENT-APPL-SN-319905 US-PATENT-CLASS-73-99 US-PATENT-3,282,091
N70-41993*	c 15	NASA-CASE-XLE-01300 US-PATENT-APPL-SN-380960 US-PATENT-CLASS-73-100 US-PATENT-3,323,362	N71-10617*	c 15	NASA-CASE-XMF-01887 US-PATENT-APPL-SN-422868 US-PATENT-CLASS-308-5 US-PATENT-3,325,229	N71-10782*	c 15	NASA-CASE-XKS-01985 US-PATENT-APPL-SN-357337 US-PATENT-CLASS-285-24 US-PATENT-3,319,979
N70-41994*	c 14	NASA-CASE-XMF-02822 US-PATENT-APPL-SN-403959 US-PATENT-CLASS-73-194 US-PATENT-3,323,362	N71-10618*	c 09	NASA-CASE-XNP-03332 US-PATENT-APPL-SN-368123 US-PATENT-CLASS-313-63 US-PATENT-3,311,772	N71-10797*	c 14	NASA-CASE-XLE-01246 US-PATENT-APPL-SN-249537 US-PATENT-CLASS-324-61 US-PATENT-3,324,388
N70-42000*	c 05	NASA-CASE-XMS-03371 US-PATENT-APPL-SN-418931 US-PATENT-CLASS-73-432 US-PATENT-3,323,370	N71-10658*	c 15	NASA-CASE-XMS-03252 US-PATENT-APPL-SN-425362 US-PATENT-CLASS-60-54.5 US-PATENT-3,318,093	N71-10798*	c 09	NASA-CASE-XMS-00945 US-PATENT-APPL-SN-385530 US-PATENT-CLASS-330-22 US-PATENT-3,319,175
N70-42003*	c 32	NASA-CASE-XLA-02131 US-PATENT-APPL-SN-377777 US-PATENT-CLASS-73-90 US-PATENT-3,304,768	N71-10659*	c 09	NASA-CASE-XNP-01383 US-PATENT-APPL-SN-369336 US-PATENT-CLASS-324-77 US-PATENT-3,317,832	N71-10799*	c 15	NASA-CASE-XLA-01807 US-PATENT-APPL-SN-442558 US-PATENT-CLASS-287-189.36 US-PATENT-3,318,622
N70-42015*	c 31	NASA-CASE-XLA-01967 US-PATENT-APPL-SN-457875 US-PATENT-CLASS-244-135 US-PATENT-3,321,159	N71-10672*	c 15	NASA-CASE-XLA-01091 US-PATENT-APPL-SN-351259 US-PATENT-CLASS-264-102 US-PATENT-3,317,641	N71-10809*	c 15	NASA-CASE-XMF-02107 US-PATENT-APPL-SN-384811 US-PATENT-CLASS-140-124 US-PATENT-3,318,343
N70-42016*	c 02	NASA-CASE-XLA-01290 US-PATENT-APPL-SN-393451 US-PATENT-CLASS-244-42 US-PATENT-3,321,157	N71-10673*	c 09	NASA-CASE-XGS-01473 US-PATENT-APPL-SN-364867 US-PATENT-CLASS-307-88.5 US-PATENT-3,317,751	N71-11037*	c 02	NASA-CASE-XLA-06824-2 US-PATENT-APPL-SN-775966 US-PATENT-CLASS-244-31 US-PATENT-3,508,724
N70-42017*	c 15	NASA-CASE-XMS-04072 US-PATENT-APPL-SN-485960 US-PATENT-CLASS-30-228 US-PATENT-3,320,669	N71-10676*	c 07	NASA-CASE-XNP-03134 US-PATENT-APPL-SN-422095 US-PATENT-CLASS-333-21 US-PATENT-3,324,423	N71-11038*	c 02	NASA-CASE-XLA-06958 US-PATENT-APPL-SN-551815 US-PATENT-CLASS-244-44 US-PATENT-3,310,261
N70-42032*	c 10	NASA-CASE-XNP-02654 US-PATENT-APPL-SN-435387 US-PATENT-CLASS-307-88.5 US-PATENT-3,321,645	N71-10677*	c 09	NASA-CASE-XGS-01451 US-PATENT-APPL-SN-405629 US-PATENT-CLASS-318-138 US-PATENT-3,324,370	N71-11039*	c 02	NASA-CASE-MS-12111-1 US-PATENT-APPL-SN-775877 US-PATENT-CLASS-244-23 US-PATENT-3,490,721
N70-42033*	c 15	NASA-CASE-XNP-02092 US-PATENT-APPL-SN-371856 US-PATENT-CLASS-156-345 US-PATENT-3,323,967	N71-10678*	c 21	NASA-CASE-XGS-01159 US-PATENT-APPL-SN-332313 US-PATENT-CLASS-250-203 US-PATENT-3,311,748	N71-11041* #	c 02	NASA-CASE-XLA-03659 US-PATENT-APPL-SN-444087 US-PATENT-CLASS-244-46 US-PATENT-3,270,989
N70-42034*	c 15	NASA-CASE-XNP-01412 US-PATENT-APPL-SN-426702 US-PATENT-CLASS-175-310 US-PATENT-3,321,034	N71-10728*	c 03	NASA-CASE-XNP-01464 US-PATENT-APPL-SN-430778 US-PATENT-CLASS-136-182 US-PATENT-3,317,352	N71-11043*	c 02	NASA-CASE-XLA-08801-1 US-PATENT-APPL-SN-710533 US-PATENT-CLASS-244-43 US-PATENT-3,493,197
N70-42073*	c 03	NASA-CASE-XFR-04104 US-PATENT-APPL-SN-476759 US-PATENT-CLASS-74-471 US-PATENT-3,323,386	N71-10746*	c 11	NASA-CASE-XMS-02977 US-PATENT-APPL-SN-416938 US-PATENT-CLASS-35-12 US-PATENT-3,281,963	N71-11049*	c 03	NASA-CASE-NPO-10109 US-PATENT-APPL-SN-701654 US-PATENT-CLASS-136-89 US-PATENT-3,532,551
N70-42074*	c 14	NASA-CASE-XLE-02998 US-PATENT-APPL-SN-516794 US-PATENT-CLASS-116-117 US-PATENT-3,323,484	N71-10747*	c 31	NASA-CASE-XMF-00442 US-PATENT-APPL-SN-202030 US-PATENT-CLASS-343-705 US-PATENT-3,277,486	N71-11050*	c 03	NASA-CASE-XNP-06506 US-PATENT-APPL-SN-577778 US-PATENT-CLASS-136-89 US-PATENT-3,446,676
N70-42075*	c 31	NASA-CASE-XMS-02677 US-PATENT-APPL-SN-472066 US-PATENT-CLASS-244-1 US-PATENT-3,321,154	N71-10748*	c 11	NASA-CASE-XFR-04147 US-PATENT-APPL-SN-476761 US-PATENT-CLASS-35-12 US-PATENT-3,281,965	N71-11051*	c 03	NASA-CASE-XNP-03378 US-PATENT-APPL-SN-360878 US-PATENT-CLASS-136-170 US-PATENT-3,282,740
N71-10500*	c 14	NASA-CASE-XLE-01609 US-PATENT-APPL-SN-438797 US-PATENT-CLASS-73-290 US-PATENT-3,326,043	N71-10771*	c 21	NASA-CASE-XNP-03914 US-PATENT-APPL-SN-468647 US-PATENT-CLASS-250-203 US-PATENT-3,317,731	N71-11052*	c 03	NASA-CASE-XLE-04526 US-PATENT-APPL-SN-640457 US-PATENT-CLASS-136-86 US-PATENT-3,507,704
N71-10560*	c 24	NASA-CASE-XLE-00808 US-PATENT-APPL-SN-307269 US-PATENT-CLASS-148-188 US-PATENT-3,310,443	N71-10772*	c 18	NASA-CASE-XLE-01765 US-PATENT-APPL-SN-316477 US-PATENT-CLASS-117-65.2 US-PATENT-3,317,341	N71-11053*	c 03	NASA-CASE-XGS-00886 US-PATENT-APPL-SN-319894 US-PATENT-CLASS-136-132 US-PATENT-3,282,739
N71-10574*	c 28	NASA-CASE-XLE-01902 US-PATENT-APPL-SN-485656 US-PATENT-CLASS-60-202 US-PATENT-3,324,659	N71-10773*	c 14	NASA-CASE-XLA-02605 US-PATENT-APPL-SN-459138 US-PATENT-CLASS-177-210 US-PATENT-3,316,991	N71-11055*	c 03	NASA-CASE-XMF-05843 US-PATENT-APPL-SN-666553 US-PATENT-CLASS-310-4 US-PATENT-3,509,386
N71-10577*	c 15	NASA-CASE-XLE-04677 US-PATENT-APPL-SN-447928 US-PATENT-CLASS-220-67 US-PATENT-3,326,407	N71-10774*	c 14	NASA-CASE-XLA-01131 US-PATENT-APPL-SN-322545 US-PATENT-CLASS-73-23 US-PATENT-3,312,101	N71-11056*	c 03	NASA-CASE-XNP-05821 US-PATENT-APPL-SN-545223 US-PATENT-CLASS-136-89 US-PATENT-3,493,437
N71-10578*	c 10	NASA-CASE-XMS-01554 US-PATENT-APPL-SN-414482 US-PATENT-CLASS-323-8 US-PATENT-3,325,723	N71-10775*	c 07	NASA-CASE-XLA-00901 US-PATENT-APPL-SN-269212 US-PATENT-CLASS-325-305 US-PATENT-3,311,832	N71-11057*	c 03	NASA-CASE-MS-13112 US-PATENT-APPL-SN-765738 US-PATENT-CLASS-290-40 US-PATENT-3,508,070
N71-10582*	c 31	NASA-CASE-XLA-02132 US-PATENT-APPL-SN-453227 US-PATENT-CLASS-102-49 US-PATENT-3,286,630	N71-10776*	c 11	NASA-CASE-XLA-03127 US-PATENT-APPL-SN-447927 US-PATENT-CLASS-35-12 US-PATENT-3,281,964	N71-11058*	c 03	NASA-CASE-XGS-01475 US-PATENT-APPL-SN-344793 US-PATENT-CLASS-244-1 US-PATENT-3,459,391
N71-10604*	c 11	NASA-CASE-XMF-03248 US-PATENT-APPL-SN-377780 US-PATENT-CLASS-73-116 US-PATENT-3,310,980	N71-10777*	c 11	NASA-CASE-XLE-01533 US-PATENT-APPL-SN-334678 US-PATENT-CLASS-55-400 US-PATENT-3,282,035	N71-11189*	c 05	NASA-CASE-XFR-10856 US-PATENT-APPL-SN-626376 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10607*	c 26	NASA-CASE-XLE-02792 US-PATENT-APPL-SN-352400 US-PATENT-CLASS-148-1.5 US-PATENT-3,311,510	N71-10778*	c 15	NASA-CASE-XNP-00710 US-PATENT-APPL-SN-271821 US-PATENT-CLASS-251-61 US-PATENT-3,317,180	N71-11190*	c 05	NASA-CASE-XMS-04935 US-PATENT-APPL-SN-518487 US-PATENT-CLASS-128-142.5 US-PATENT-3,502,074
N71-10608*	c 03	NASA-CASE-XGS-03505 US-PATENT-APPL-SN-498167 US-PATENT-CLASS-136-28 US-PATENT-3,311,502	N71-10779*	c 14	NASA-CASE-XMF-02307 US-PATENT-APPL-SN-422869 US-PATENT-CLASS-73-40.5 US-PATENT-3,316,752	N71-11193*	c 05	NASA-CASE-ARC-10043-1 US-PATENT-APPL-SN-676012 US-PATENT-CLASS-128-2.1 US-PATENT-3,508,541
N71-10609*	c 07	NASA-CASE-XGS-01223 US-PATENT-APPL-SN-319892 US-PATENT-CLASS-242-55.19	N71-10780*	c 28	NASA-CASE-XLA-01043 US-PATENT-APPL-SN-379768 US-PATENT-CLASS-60-225	N71-11194*	c 05	NASA-CASE-XLA-05332 US-PATENT-APPL-SN-757861 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,407

N71-11195*	c 05	NASA-CASE-LAR-10007-1 US-PATENT-APPL-SN-770203 US-PATENT-CLASS-2-2.1 US-PATENT-3,534,406	N71-12258*	c 03	NASA-CASE-XLA-00711 US-PATENT-APPL-SN-357334 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,012	N71-12506*	c 08	NASA-CASE-XNP-08832 US-PATENT-APPL-SN-681692 US-PATENT-CLASS-340-172.5 US-PATENT-3,535,696
N71-11199*	c 05	NASA-CASE-XKS-02342 US-PATENT-APPL-SN-407603 US-PATENT-CLASS-182-191 US-PATENT-3,262,518	N71-12259*	c 03	NASA-CASE-XLA-01396 US-PATENT-APPL-SN-357336 US-PATENT-CLASS-89-1.7 US-PATENT-3,249,013	N71-12507*	c 08	NASA-CASE-XLA-01952 US-PATENT-APPL-SN-676386 US-PATENT-CLASS-340-324 US-PATENT-3,537,096
N71-11202*	c 05	NASA-CASE-XFR-08403 US-PATENT-APPL-SN-704420 US-PATENT-CLASS-73-23 US-PATENT-3,507,146	N71-12260*	c 03	NASA-CASE-XNP-01020 US-PATENT-APPL-SN-430780 US-PATENT-CLASS-60-97 US-PATENT-3,238,730	N71-12513*	c 09	NASA-CASE-XGS-07801 US-PATENT-APPL-SN-640452 US-PATENT-CLASS-148-188 US-PATENT-3,490,965
N71-11203*	c 05	NASA-CASE-XMS-09632-1 US-PATENT-APPL-SN-791693 US-PATENT-CLASS-128-142.5 US-PATENT-3,500,827	N71-12335*	c 05	NASA-CASE-XMS-00784 US-PATENT-APPL-SN-358127 US-PATENT-CLASS-2-2.1 US-PATENT-3,286,274	N71-12514*	c 09	NASA-CASE-XLA-07497 US-PATENT-APPL-SN-631848 US-PATENT-CLASS-307-252 US-PATENT-3,491,255
N71-11207*	c 05	NASA-CASE-XLA-03213 US-PATENT-APPL-SN-621715 US-PATENT-CLASS-202-182 US-PATENT-3,444,051	N71-12336*	c 05	NASA-CASE-XMS-05304 US-PATENT-APPL-SN-511567 US-PATENT-CLASS-244-4 US-PATENT-3,270,986	N71-12515*	c 09	NASA-CASE-XNP-08836 US-PATENT-APPL-SN-668968 US-PATENT-CLASS-340-174 US-PATENT-3,535,702
N71-11235*	c 06	NASA-CASE-XLA-03104 US-PATENT-APPL-SN-510155 US-PATENT-CLASS-260-78 US-PATENT-3,518,232	N71-12341*	c 05	NASA-CASE-MFS-14671 US-PATENT-APPL-SN-723476 US-PATENT-CLASS-297-385 US-PATENT-3,516,711	N71-12516*	c 09	NASA-CASE-XNP-09768 US-PATENT-APPL-SN-698629 US-PATENT-CLASS-307-243 US-PATENT-3,535,554
N71-11236*	c 06	NASA-CASE-XMF-08651 US-PATENT-APPL-SN-593594 US-PATENT-CLASS-260-72.5 US-PATENT-3,526,611	N71-12342*	c 05	NASA-CASE-XAC-05706 US-PATENT-APPL-SN-592694 US-PATENT-CLASS-325-143 US-PATENT-3,453,546	N71-12517*	c 09	NASA-CASE-XAC-10608-1 US-PATENT-APPL-SN-710561 US-PATENT-CLASS-333-80 US-PATENT-3,493,901
N71-11237*	c 06	NASA-CASE-XMF-10753 US-PATENT-APPL-SN-668751 US-PATENT-CLASS-260-46.5 US-PATENT-3,444,127	N71-12343*	c 05	NASA-CASE-MS-11253 US-PATENT-APPL-SN-695973 US-PATENT-CLASS-297-68 US-PATENT-3,466,085	N71-12518*	c 09	NASA-CASE-XNP-09808 US-PATENT-APPL-SN-692471 US-PATENT-CLASS-200-61.42 US-PATENT-3,488,461
N71-11238*	c 06	NASA-CASE-XLA-08802 US-PATENT-APPL-SN-640454 US-PATENT-CLASS-260-78 US-PATENT-3,532,673	N71-12344*	c 05	NASA-CASE-XMS-09636 US-PATENT-APPL-SN-586330 US-PATENT-CLASS-2-2.1 US-PATENT-3,492,672	N71-12519*	c 09	NASA-CASE-XMF-06519 US-PATENT-APPL-SN-656952 US-PATENT-CLASS-328-110 US-PATENT-3,535,644
N71-11239*	c 06	NASA-CASE-XMF-08655 US-PATENT-APPL-SN-593593 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,970	N71-12345*	c 05	NASA-CASE-MS-12086-1 US-PATENT-APPL-SN-812999 US-PATENT-CLASS-29-400 US-PATENT-3,490,130	N71-12520*	c 09	NASA-CASE-NPO-10230 US-PATENT-APPL-SN-691735 US-PATENT-CLASS-307-229 US-PATENT-3,535,547
N71-11240*	c 06	NASA-CASE-MFS-13994-1 US-PATENT-APPL-SN-715975 US-PATENT-CLASS-260-46.5 US-PATENT-3,516,964	N71-12346*	c 05	NASA-CASE-XMS-04212-1 US-PATENT-APPL-SN-607461 US-PATENT-CLASS-128-2.1 US-PATENT-3,490,440	N71-12521*	c 09	NASA-CASE-ARC-10030 US-PATENT-APPL-SN-679885 US-PATENT-CLASS-313-110 US-PATENT-3,493,805
N71-11242*	c 06	NASA-CASE-XMF-08656 US-PATENT-APPL-SN-593605 US-PATENT-CLASS-260-2.5 US-PATENT-3,493,524	N71-12351*	c 05	NASA-CASE-LAR-10056 US-PATENT-APPL-SN-674357 US-PATENT-CLASS-224-25 US-PATENT-3,493,153	N71-12526*	c 09	NASA-CASE-MS-12135-1 US-PATENT-APPL-SN-761404 US-PATENT-CLASS-317-31 US-PATENT-3,448,341
N71-11243*	c 06	NASA-CASE-XMF-08652 US-PATENT-APPL-SN-593606 US-PATENT-CLASS-260-2 US-PATENT-3,493,522	N71-12389*	c 07	NASA-CASE-XLA-01090 US-PATENT-APPL-SN-741824 US-PATENT-CLASS-250-199 US-PATENT-RE-26,548	N71-12539*	c 09	NASA-CASE-ERC-10552 US-PATENT-APPL-SN-720125 US-PATENT-CLASS-178-7.7 US-PATENT-3,535,446
N71-11266*	c 07	NASA-CASE-XLA-03076 US-PATENT-APPL-SN-591004 US-PATENT-CLASS-325-42 US-PATENT-3,508,152	N71-12390*	c 07	NASA-CASE-XER-09213 US-PATENT-APPL-SN-668302 US-PATENT-CLASS-332-9 US-PATENT-3,535,657	N71-12540*	c 09	NASA-CASE-XNP-01058 US-PATENT-APPL-SN-313136 US-PATENT-CLASS-315-160 US-PATENT-3,271,620
N71-11267*	c 07	NASA-CASE-XNP-10843 US-PATENT-APPL-SN-649358 US-PATENT-CLASS-325-363 US-PATENT-3,508,156	N71-12391*	c 07	NASA-CASE-XMS-05454-1 US-PATENT-APPL-SN-771803 US-PATENT-CLASS-343-17.7 US-PATENT-3,471,858	N71-12554*	c 10	NASA-CASE-NPO-10348 US-PATENT-APPL-SN-704668 US-PATENT-CLASS-324-95 US-PATENT-3,532,979
N71-11281*	c 07	NASA-CASE-XNP-10830 US-PATENT-APPL-SN-692332 US-PATENT-CLASS-178-69.5 US-PATENT-3,535,451	N71-12392*	c 07	NASA-CASE-XGS-01590 US-PATENT-APPL-SN-584067 US-PATENT-CLASS-178-88 US-PATENT-3,491,202	N71-13410*	c 01	NASA-CASE-XLA-00755 US-PATENT-APPL-SN-247423 US-PATENT-CLASS-244-35 US-PATENT-3,270,988
N71-11282*	c 07	NASA-CASE-XGS-02889 US-PATENT-APPL-SN-685748 US-PATENT-CLASS-329-104 US-PATENT-3,501,704	N71-12396*	c 07	NASA-CASE-GSC-10452 US-PATENT-APPL-SN-797794 US-PATENT-CLASS-343-776 US-PATENT-3,495,262	N71-13411*	c 01	NASA-CASE-XLA-05828 US-PATENT-APPL-SN-509460 US-PATENT-CLASS-235-61.6 US-PATENT-3,500,020
N71-11284*	c 07	NASA-CASE-XLA-01552 US-PATENT-APPL-SN-332339 US-PATENT-CLASS-325-65 US-PATENT-3,277,375	N71-12494*	c 08	NASA-CASE-XGS-04767 US-PATENT-APPL-SN-645584 US-PATENT-CLASS-307-296 US-PATENT-3,535,560	N71-13421*	c 02	NASA-CASE-XFR-00756 US-PATENT-APPL-SN-212173 US-PATENT-CLASS-235-150.22 US-PATENT-3,258,582
N71-11285*	c 07	NASA-CASE-NPO-10539 US-PATENT-APPL-SN-743429 US-PATENT-CLASS-343-779 US-PATENT-3,534,375	N71-12500*	c 08	NASA-CASE-XNP-07040 US-PATENT-APPL-SN-649357 US-PATENT-CLASS-332-31 US-PATENT-3,535,658	N71-13422*	c 02	NASA-CASE-XLA-06339 US-PATENT-APPL-SN-801336 US-PATENT-CLASS-244-76 US-PATENT-3,534,930
N71-11298*	c 07	NASA-CASE-XMF-01160 US-PATENT-APPL-SN-310507 US-PATENT-CLASS-340-198 US-PATENT-3,243,791	N71-12501*	c 08	NASA-CASE-XLA-00670 US-PATENT-APPL-SN-235162 US-PATENT-CLASS-340-347 US-PATENT-3,251,053	N71-13461*	c 06	NASA-CASE-LAR-10180-1 US-PATENT-APPL-SN-709398 US-PATENT-CLASS-250-41.9 US-PATENT-3,521,054
N71-11300*	c 07	NASA-CASE-XMS-07168 US-PATENT-APPL-SN-769788 US-PATENT-CLASS-178-6.6 US-PATENT-3,493,677	N71-12502*	c 08	NASA-CASE-NPO-10112 US-PATENT-APPL-SN-673226 US-PATENT-CLASS-340-172.5 US-PATENT-3,533,074	N71-13486*	c 09	NASA-CASE-MFS-20333 US-PATENT-APPL-SN-820965 US-PATENT-CLASS-307-149 US-PATENT-3,535,543
N71-11766*	c 21	NASA-CASE-LAR-10403 US-PATENT-APPL-SN-676391 US-PATENT-CLASS-343-6.5 US-PATENT-3,447,154	N71-12503*	c 08	NASA-CASE-NPO-10351 US-PATENT-APPL-SN-712065 US-PATENT-CLASS-328-37 US-PATENT-3,535,642	N71-13518*	c 09	NASA-CASE-MS-12178-1 US-PATENT-APPL-SN-845365 US-PATENT-CLASS-315-241 US-PATENT-3,530,336
N71-12217* #	c 01	NASA-CASE-FRC-10063 US-PATENT-APPL-SN-21263 US-PATENT-CLASS-XLA-04451 US-PATENT-APPL-SN-457876	N71-12504*	c 08	NASA-CASE-XMF-05835 US-PATENT-APPL-SN-627257 US-PATENT-CLASS-340-174 US-PATENT-3,493,942	N71-13521*	c 09	NASA-CASE-XKS-09348 US-PATENT-APPL-SN-677505 US-PATENT-CLASS-343-703 US-PATENT-3,526,897
N71-12243*	c 02	NASA-CASE-XLA-04451 US-PATENT-APPL-SN-457876 US-PATENT-CLASS-244-45 US-PATENT-3,310,262	N71-12505*	c 08	NASA-CASE-XNP-05415 US-PATENT-APPL-SN-578932	N71-13522*	c 09	NASA-CASE-LEW-10364-1 US-PATENT-APPL-SN-822518
N71-12255*	c 03	NASA-CASE-NPO-10404 US-PATENT-APPL-SN-728234						

		US-PATENT-CLASS-317-258				US-PATENT-CLASS-350-3.5				US-PATENT-CLASS-60-35.6
		US-PATENT-3,535,602				US-PATENT-3,535,013				US-PATENT-3,270,503
N71-13530*	c 09	NASA-CASE-XNP-00384	N71-15562*	c 25	NASA-CASE-XLA-03374	N71-15625*	c 33	NASA-CASE-XLE-01399		
		US-PATENT-APPL-SN-180392			US-PATENT-APPL-SN-793770			US-PATENT-APPL-SN-320233		
		US-PATENT-CLASS-324-132			US-PATENT-CLASS-315-111			US-PATENT-CLASS-13-26		
N71-13531*	c 09	NASA-CASE-MS-12033-1	N71-15563*	c 28	NASA-CASE-XLA-02865	N71-15634*	c 27	NASA-CASE-XLE-01988		
		US-PATENT-APPL-SN-602828			US-PATENT-APPL-SN-416946			US-PATENT-APPL-SN-308918		
		US-PATENT-CLASS-330-11			US-PATENT-CLASS-244-53			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,526,845			US-PATENT-3,270,990			US-PATENT-3,258,912		
N71-13537*	c 10	NASA-CASE-XNP-08274	N71-15565*	c 16	NASA-CASE-MFS-20074	N71-15635*	c 27	NASA-CASE-XLE-01182		
		US-PATENT-APPL-SN-730703			US-PATENT-APPL-SN-801312			US-PATENT-APPL-SN-411949		
		US-PATENT-CLASS-73-382			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-60-39.46		
		US-PATENT-3,520,190			US-PATENT-3,535,014			US-PATENT-3,258,918		
N71-13545*	c 10	NASA-CASE-LAR-10774	N71-15566*	c 31	NASA-CASE-XKS-08012-2	N71-15637*	c 31	NASA-CASE-XLE-01640		
		US-PATENT-APPL-SN-802820			US-PATENT-APPL-SN-874958			US-PATENT-APPL-SN-473535		
		US-PATENT-CLASS-73-1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,534,584			US-PATENT-3,535,683			US-PATENT-3,270,504		
N71-13789*	c 15	NASA-CASE-XLA-01141	N71-15567*	c 16	NASA-CASE-ERC-10017	N71-15641*	c 33	NASA-CASE-XNP-09802		
		US-PATENT-APPL-SN-353632			US-PATENT-APPL-SN-677506			US-PATENT-APPL-SN-673229		
		US-PATENT-CLASS-102-49			US-PATENT-CLASS-350-3.5			US-PATENT-CLASS-73-190		
		US-PATENT-3,263,610			US-PATENT-3,535,012			US-PATENT-3,531,989		
N71-13958*	c 21	NASA-CASE-GSC-10087-2	N71-15568*	c 33	NASA-CASE-XLE-09475-1	N71-15642*	c 21	NASA-CASE-XGS-03431		
		US-PATENT-APPL-SN-701744			US-PATENT-APPL-SN-710945			US-PATENT-APPL-SN-588635		
		US-PATENT-CLASS-343-112			US-PATENT-CLASS-136-228			US-PATENT-CLASS-250-203		
		US-PATENT-3,495,260			US-PATENT-3,535,165			US-PATENT-3,488,504		
N71-14014*	c 18	NASA-CASE-GSC-10072	N71-15571*	c 15	NASA-CASE-XLA-07911	N71-15643*	c 31	NASA-CASE-NPO-10311		
		US-PATENT-APPL-SN-686296			US-PATENT-APPL-SN-660572			US-PATENT-APPL-SN-725475		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-33-207			US-PATENT-CLASS-73-116		
		US-PATENT-3,493,401			US-PATENT-3,492,739			US-PATENT-3,534,597		
N71-14032*	c 33	NASA-CASE-XLE-05913	N71-15582*	c 21	NASA-CASE-XLA-01163	N71-15644*	c 17	NASA-CASE-XLE-00726		
		US-PATENT-APPL-SN-551933			US-PATENT-APPL-SN-405632			US-PATENT-APPL-SN-355126		
		US-PATENT-CLASS-117-106			US-PATENT-CLASS-60-35.55			US-PATENT-CLASS-75-170		
		US-PATENT-3,490,939			US-PATENT-3,270,505			US-PATENT-3,271,140		
N71-14035*	c 33	NASA-CASE-XLE-03307	N71-15583*	c 21	NASA-CASE-XMF-01598	N71-15647*	c 31	NASA-CASE-XGS-01143		
		US-PATENT-APPL-SN-613979			US-PATENT-APPL-SN-333770			US-PATENT-APPL-SN-349781		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-244-1			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,490,718			US-PATENT-3,270,985			US-PATENT-3,270,501		
N71-14043*	c 28	NASA-CASE-XLE-01124	N71-15597*	c 15	NASA-CASE-XLE-08917	N71-15658*	c 28	NASA-CASE-XLE-00409		
		US-PATENT-APPL-SN-312269			US-PATENT-APPL-SN-662829			US-PATENT-APPL-SN-249539		
		US-PATENT-CLASS-60-35.5			US-PATENT-CLASS-113-116			US-PATENT-CLASS-29-157		
		US-PATENT-3,238,715			US-PATENT-3,490,405			US-PATENT-3,254,395		
N71-14044*	c 28	NASA-CASE-XGS-08729	N71-15598*	c 14	NASA-CASE-XAC-00812	N71-15659*	c 28	NASA-CASE-XLE-05689		
		US-PATENT-APPL-SN-667637			US-PATENT-APPL-SN-255132			US-PATENT-APPL-SN-491845		
		US-PATENT-CLASS-60-200			US-PATENT-CLASS-73-341			US-PATENT-CLASS-60-35.60		
		US-PATENT-3,490,235			US-PATENT-3,238,777			US-PATENT-3,254,487		
N71-14058*	c 28	NASA-CASE-MS-12139-1	N71-15599*	c 14	NASA-CASE-XNP-04161	N71-15660*	c 28	NASA-CASE-XMF-00968		
		US-PATENT-APPL-SN-797796			US-PATENT-APPL-SN-568356			US-PATENT-APPL-SN-339825		
		US-PATENT-CLASS-103-37			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-60-35.6		
		US-PATENT-3,492,947			US-PATENT-3,444,375			US-PATENT-3,270,499		
N71-14090*	c 27	NASA-CASE-LAR-10173-1	N71-15600*	c 14	NASA-CASE-XKS-06250	N71-15661*	c 28	NASA-CASE-XLE-02066		
		US-PATENT-APPL-SN-758942			US-PATENT-APPL-SN-649075			US-PATENT-APPL-SN-426455		
		US-PATENT-CLASS-149-19			US-PATENT-CLASS-73-97			US-PATENT-CLASS-60-35.5		
		US-PATENT-3,492,176			US-PATENT-3,492,862			US-PATENT-3,262,262		
N71-14132*	c 21	NASA-CASE-XLA-05464	N71-15604*	c 14	NASA-CASE-NPO-10337	N71-15663*	c 31	NASA-CASE-XLA-00256		
		US-PATENT-APPL-SN-656995			US-PATENT-APPL-SN-714296			US-PATENT-APPL-SN-333766		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-58			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,194			US-PATENT-3,488,103			US-PATENT-3,262,655		
N71-14159*	c 21	NASA-CASE-XGS-04393	N71-15605*	c 14	NASA-CASE-GSC-10062	N71-15664*	c 31	NASA-CASE-XLA-01332		
		US-PATENT-APPL-SN-700142			US-PATENT-APPL-SN-658955			US-PATENT-APPL-SN-250974		
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-350-285			US-PATENT-CLASS-220-15		
		US-PATENT-3,490,719			US-PATENT-3,493,294			US-PATENT-3,270,908		
N71-14354*	c 26	NASA-CASE-ERC-10138	N71-15606*	c 15	NASA-CASE-XNP-06031	N71-15673*	c 23	NASA-CASE-XMS-01620		
		US-PATENT-APPL-SN-821586			US-PATENT-APPL-SN-590144			US-PATENT-APPL-SN-357340		
		US-PATENT-CLASS-225-2			US-PATENT-CLASS-250-52			US-PATENT-CLASS-248-358		
		US-PATENT-3,493,155			US-PATENT-3,493,746			US-PATENT-3,243,154		
N71-14932*	c 15	NASA-CASE-LEW-11531	N71-15607*	c 15	NASA-CASE-XMF-03287	N71-15674*	c 31	NASA-CASE-XLA-03691		
		US-PATENT-APPL-SN-643332			US-PATENT-APPL-SN-658956			US-PATENT-APPL-SN-667625		
		US-PATENT-CLASS-219-72			US-PATENT-CLASS-228-7			US-PATENT-CLASS-244-1		
		US-PATENT-3,493,711			US-PATENT-3,443,732			US-PATENT-3,534,924		
N71-14996*	c 14	NASA-CASE-XLA-00936	N71-15608*	c 15	NASA-CASE-NPO-10117	N71-15675*	c 31	NASA-CASE-XMF-03169		
		US-PATENT-APPL-SN-282818			US-PATENT-APPL-SN-668238			US-PATENT-APPL-SN-375405		
		US-PATENT-CLASS-73-170			US-PATENT-CLASS-138-42			US-PATENT-CLASS-89-1.5		
		US-PATENT-3,238,774			US-PATENT-3,493,012			US-PATENT-3,262,365		
N71-15467*	c 23	NASA-CASE-XNP-03796	N71-15609*	c 15	NASA-CASE-XMF-04709	N71-15676*	c 31	NASA-CASE-XGS-05579		
		US-PATENT-APPL-SN-453231			US-PATENT-APPL-SN-683507			US-PATENT-APPL-SN-719869		
		US-PATENT-CLASS-62-6			US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-244-1		
		US-PATENT-3,260,055			US-PATENT-3,493,003			US-PATENT-3,534,925		
N71-15468*	c 17	NASA-CASE-LEW-10393-1	N71-15610*	c 15	NASA-CASE-XLE-01604-2	N71-15687*	c 31	NASA-CASE-XLA-05369		
		US-PATENT-APPL-SN-644799			US-PATENT-APPL-SN-683613			US-PATENT-APPL-SN-765123		
		US-PATENT-CLASS-75-202			US-PATENT-CLASS-117-50			US-PATENT-CLASS-102-49.5		
		US-PATENT-3,535,110			US-PATENT-3,493,415			US-PATENT-3,534,686		
N71-15469*	c 18	NASA-CASE-ARC-10099-1	N71-15620*	c 14	NASA-CASE-XLA-01926	N71-15688*	c 18	NASA-CASE-XNP-03459-2		
		US-PATENT-APPL-SN-704224			US-PATENT-APPL-SN-784521			US-PATENT-APPL-SN-681942		
		US-PATENT-CLASS-106-15			US-PATENT-CLASS-340-57			US-PATENT-CLASS-260-404.5		
		US-PATENT-3,535,130			US-PATENT-3,491,335			US-PATENT-3,535,352		
N71-15545*	c 18	NASA-CASE-XMS-09691-1	N71-15621*	c 14	NASA-CASE-XNP-09572	N71-15689*	c 31	NASA-CASE-MFS-14685		
		US-PATENT-APPL-SN-738119			US-PATENT-APPL-SN-660841			US-PATENT-APPL-SN-752947		
		US-PATENT-CLASS-8-94.12			US-PATENT-CLASS-35-10.2			US-PATENT-CLASS-180-118		
		US-PATENT-3,526,473			US-PATENT-3,493,665			US-PATENT-CLASS-180-121		
N71-15550*	c 16	NASA-CASE-XNP-05219	N71-15622*	c 14	NASA-CASE-XNP-04111	N71-15692*	c 31	NASA-CASE-XLA-01339		
		US-PATENT-APPL-SN-336103			US-PATENT-APPL-SN-560969			US-PATENT-APPL-SN-373591		
		US-PATENT-CLASS-330-4			US-PATENT-CLASS-350-213			US-PATENT-CLASS-102-49		
		US-PATENT-3,299,364			US-PATENT-3,493,291			US-PATENT-3,260,204		
N71-15551*	c 16	NASA-CASE-ERC-10019	N71-15623*	c 33	NASA-CASE-XMS-01816	N71-15871*	c 15	NASA-CASE-XMF-02039		
		US-PATENT-APPL-SN-677508			US-PATENT-APPL-SN-425364					

		US-PATENT-APPL-SN-434143			US-PATENT-APPL-SN-304749			US-PATENT-APPL-SN-701732
		US-PATENT-CLASS-219-131			US-PATENT-CLASS-35-29			US-PATENT-CLASS-250-41.9
		US-PATENT-3,271,558			US-PATENT-3,270,441			US-PATENT-3,532,880
N71-15906*	c 15	NASA-CASE-XNP-00920	N71-16030*	c 10	NASA-CASE-XMF-01096	N71-16098*	c 23	NASA-CASE-XAC-03107
		US-PATENT-APPL-SN-329331			US-PATENT-APPL-SN-307270			US-PATENT-APPL-SN-538168
		US-PATENT-CLASS-62-2			US-PATENT-CLASS-318-376			US-PATENT-CLASS-73-505
		US-PATENT-3,270,512			US-PATENT-3,271,649			US-PATENT-3,455,171
N71-15907*	c 07	NASA-CASE-XNP-01057	N71-16031*	c 12	NASA-CASE-XMS-01445	N71-16099*	c 23	NASA-CASE-XGS-07514
		US-PATENT-APPL-SN-301683			US-PATENT-APPL-SN-385526			US-PATENT-APPL-SN-640453
		US-PATENT-CLASS-343-786			US-PATENT-CLASS-137-615			US-PATENT-CLASS-328-1
		US-PATENT-3,305,870			US-PATENT-3,308,848			US-PATENT-3,509,469
N71-15908*	c 08	NASA-CASE-XLA-02705	N71-16037*	c 26	NASA-CASE-XGS-05718	N71-16100*	c 23	NASA-CASE-XGS-05715
		US-PATENT-APPL-SN-473537			US-PATENT-APPL-SN-584071			US-PATENT-APPL-SN-668257
		US-PATENT-CLASS-129-16.7			US-PATENT-CLASS-29-472.9			US-PATENT-CLASS-250-233
		US-PATENT-3,310,054			US-PATENT-3,452,423			US-PATENT-3,532,894
N71-15909*	c 10	NASA-CASE-XAC-03777	N71-16042*	c 10	NASA-CASE-XAC-00942	N71-16101*	c 23	NASA-CASE-XNP-08883
		US-PATENT-APPL-SN-484489			US-PATENT-APPL-SN-310506			US-PATENT-APPL-SN-617021
		US-PATENT-CLASS-200-6			US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-356-117
		US-PATENT-3,283,088			US-PATENT-3,277,314			US-PATENT-3,520,617
N71-15910*	c 10	NASA-CASE-XGS-00823	N71-16044*	c 17	NASA-CASE-XGS-06306	N71-16102*	c 31	NASA-CASE-XGS-09190
		US-PATENT-APPL-SN-336607			US-PATENT-APPL-SN-685473			US-PATENT-APPL-SN-647298
		US-PATENT-CLASS-307-88.5			US-PATENT-CLASS-156-3			US-PATENT-CLASS-343-915
		US-PATENT-3,283,175			US-PATENT-3,532,568			US-PATENT-3,521,290
N71-15918*	c 15	NASA-CASE-XMS-02383	N71-16046*	c 18	NASA-CASE-GSC-10007	N71-16103*	c 32	NASA-CASE-LAR-10317.1
		US-PATENT-APPL-SN-299042			US-PATENT-APPL-SN-627599			US-PATENT-APPL-SN-739927
		US-PATENT-CLASS-140-123			US-PATENT-CLASS-117-201			US-PATENT-CLASS-137-582
		US-PATENT-3,299,913			US-PATENT-3,532,538			US-PATENT-3,508,578
N71-15922*	c 15	NASA-CASE-XGS-01971	N71-16052*	c 15	NASA-CASE-XLE-02999	N71-16104*	c 33	NASA-CASE-XLE-00785
		US-PATENT-APPL-SN-353645			US-PATENT-APPL-SN-431235			US-PATENT-APPL-SN-666554
		US-PATENT-CLASS-85-33			US-PATENT-CLASS-29-148.4			US-PATENT-CLASS-60-108
		US-PATENT-3,262,351			US-PATENT-3,262,186			US-PATENT-3,508,402
N71-15925*	c 11	NASA-CASE-XLA-00378	N71-16057*	c 10	NASA-CASE-XNP-01193	N71-16105*	c 18	NASA-CASE-XLE-08511.2
		US-PATENT-APPL-SN-266107			US-PATENT-APPL-SN-366226			US-PATENT-APPL-SN-711921
		US-PATENT-CLASS-219-10.49			US-PATENT-CLASS-324-57			US-PATENT-CLASS-117-119
		US-PATENT-3,238,345			US-PATENT-3,277,366			US-PATENT-3,508,955
N71-15926*	c 11	NASA-CASE-XLA-00939	N71-16058*	c 10	NASA-CASE-XMF-01097	N71-16106*	c 32	NASA-CASE-XLA-04605
		US-PATENT-APPL-SN-309354			US-PATENT-APPL-SN-290873			US-PATENT-APPL-SN-619519
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-340-227			US-PATENT-CLASS-137-582
		US-PATENT-3,276,251			US-PATENT-3,277,458			US-PATENT-3,443,584
N71-15960*	c 11	NASA-CASE-XAC-00731	N71-16073*	c 25	NASA-CASE-XAC-05695	N71-16124*	c 18	NASA-CASE-XMF-05279
		US-PATENT-APPL-SN-232318			US-PATENT-APPL-SN-634038			US-PATENT-APPL-SN-617774
		US-PATENT-CLASS-220-89			US-PATENT-CLASS-324-34			US-PATENT-CLASS-106-88
		US-PATENT-3,145,874			US-PATENT-3,517,302			US-PATENT-3,508,940
N71-15962*	c 14	NASA-CASE-XGS-01587	N71-16075*	c 15	NASA-CASE-XLA-00284	N71-16210*	c 18	NASA-CASE-XNP-08837
		US-PATENT-APPL-SN-298799			US-PATENT-APPL-SN-240760			US-PATENT-APPL-SN-691736
		US-PATENT-CLASS-324-43			US-PATENT-CLASS-117-69			US-PATENT-CLASS-204-20
		US-PATENT-3,258,687			US-PATENT-3,264,135			US-PATENT-3,526,580
N71-15966*	c 15	NASA-CASE-XLE-00953	N71-16076*	c 15	NASA-CASE-XLE-00106	N71-16212*	c 23	NASA-CASE-NPO-10250
		US-PATENT-APPL-SN-336320			US-PATENT-APPL-SN-629759			US-PATENT-APPL-SN-736848
		US-PATENT-CLASS-22-200			US-PATENT-CLASS-25-156			US-PATENT-CLASS-149-1
		US-PATENT-3,237,253			US-PATENT-2,944,316			US-PATENT-3,516,879
N71-15967*	c 15	NASA-CASE-XLE-00703	N71-16077*	c 15	NASA-CASE-XLA-00302	N71-16213*	c 24	NASA-CASE-XGS-06628
		US-PATENT-APPL-SN-271822			US-PATENT-APPL-SN-284266			US-PATENT-APPL-SN-665680
		US-PATENT-CLASS-137-13			US-PATENT-CLASS-117-46			US-PATENT-CLASS-315-111
		US-PATENT-3,270,756			US-PATENT-3,271,181			US-PATENT-3,509,419
N71-15968*	c 15	NASA-CASE-XLE-00586	N71-16078*	c 15	NASA-CASE-XGS-00824	N71-16221*	c 31	NASA-CASE-XLA-05906
		US-PATENT-APPL-SN-317391			US-PATENT-APPL-SN-379072			US-PATENT-APPL-SN-777766
		US-PATENT-CLASS-55-160			US-PATENT-CLASS-89-1			US-PATENT-CLASS-73-432
		US-PATENT-3,257,780			US-PATENT-3,309,961			US-PATENT-3,526,139
N71-15969*	c 14	NASA-CASE-XMF-01099	N71-16079*	c 15	NASA-CASE-XLA-00415	N71-16222*	c 31	NASA-CASE-MFS-11133
		US-PATENT-APPL-SN-73367			US-PATENT-APPL-SN-314074			US-PATENT-APPL-SN-693419
		US-PATENT-CLASS-73-517			US-PATENT-CLASS-233-11			US-PATENT-CLASS-244-1
		US-PATENT-3,261,210			US-PATENT-3,276,679			US-PATENT-3,508,723
N71-15974*	c 32	NASA-CASE-XMS-06782	N71-16080*	c 31	NASA-CASE-MSC-12049	N71-16223*	c 27	NASA-CASE-MFS-12750
		US-PATENT-APPL-SN-691739			US-PATENT-APPL-SN-693420			US-PATENT-APPL-SN-806149
		US-PATENT-CLASS-338-5			US-PATENT-CLASS-52-3			US-PATENT-CLASS-73-432
		US-PATENT-3,464,049			US-PATENT-3,465,482			US-PATENT-3,526,140
N71-15978*	c 23	NASA-CASE-XGS-00373	N71-16081*	c 31	NASA-CASE-XGS-03351	N71-16224*	c 28	NASA-CASE-MFS-11497
		US-PATENT-APPL-SN-105518			US-PATENT-APPL-SN-472747			US-PATENT-APPL-SN-730733
		US-PATENT-CLASS-161-189			US-PATENT-CLASS-244-31			US-PATENT-CLASS-239-265.43
		US-PATENT-3,276,946			US-PATENT-3,276,726			US-PATENT-3,526,365
N71-15986*	c 15	NASA-CASE-XMF-03498	N71-16085*	c 31	NASA-CASE-XLA-09881	N71-16277*	c 33	NASA-CASE-XMS-04268
		US-PATENT-APPL-SN-396443			US-PATENT-APPL-SN-710562			US-PATENT-APPL-SN-516160
		US-PATENT-CLASS-29-155.55			US-PATENT-CLASS-244-138			US-PATENT-CLASS-165-133
		US-PATENT-3,258,831			US-PATENT-3,520,503			US-PATENT-3,502,141
N71-15990*	c 30	NASA-CASE-XAC-08494	N71-16086*	c 09	NASA-CASE-XLE-02038	N71-16278*	c 33	NASA-CASE-XMF-04237
		US-PATENT-APPL-SN-690998			US-PATENT-APPL-SN-349782			US-PATENT-APPL-SN-539237
		US-PATENT-CLASS-356-74			US-PATENT-CLASS-73-147			US-PATENT-CLASS-219-364
		US-PATENT-3,532,428			US-PATENT-3,273,388			US-PATENT-3,517,162
N71-15992*	c 14	NASA-CASE-XGS-01052	N71-16087*	c 02	NASA-CASE-XAC-02058	N71-16281*	c 20	NASA-CASE-XLA-02081
		US-PATENT-APPL-SN-314572			US-PATENT-APPL-SN-342572			US-PATENT-APPL-SN-522795
		US-PATENT-CLASS-73-15			US-PATENT-CLASS-244-1			US-PATENT-CLASS-73-189
		US-PATENT-3,242,716			US-PATENT-3,276,722			US-PATENT-3,507,150
N71-16014*	c 14	NASA-CASE-XLE-00820	N71-16088*	c 07	NASA-CASE-XGS-01022	N71-16340*	c 20	NASA-CASE-XMF-14032
		US-PATENT-APPL-SN-228569			US-PATENT-APPL-SN-331323			US-PATENT-APPL-SN-679862
		US-PATENT-CLASS-324-32			US-PATENT-CLASS-325-4			US-PATENT-CLASS-250-209
		US-PATENT-3,283,241			US-PATENT-3,277,373			US-PATENT-3,501,641
N71-16025*	c 17	NASA-CASE-XLE-02991	N71-16089*	c 09	NASA-CASE-XAC-02405	N71-16341*	c 23	NASA-CASE-XGS-05291
		US-PATENT-APPL-SN-375401			US-PATENT-APPL-SN-433821			US-PATENT-APPL-SN-553891
		US-PATENT-CLASS-75-170			US-PATENT-CLASS-200-6			US-PATENT-CLASS-356-209
		US-PATENT-3,276,865			US-PATENT-3,271,532			US-PATENT-3,504,983
N71-16026*	c 17	NASA-CASE-XLE-02082	N71-16090*	c 30	NASA-CASE-GSC-10083-1	N71-16345*	c 31	NASA-CASE-XMF-05344
		US-PATENT-APPL-SN-360180			US-PATENT-APPL-SN-641431			US-PATENT-APPL-SN-702396
		US-PATENT-CLASS-75-171			US-PATENT-CLASS-343-6			US-PATENT-CLASS-244-1
		US-PATENT-3,276,866			US-PATENT-3,471,856			US-PATENT-3,520,496
N71-16028*	c 11	NASA-CASE-XLA-01787	N71-16095*	c 24	NASA-CASE-XAC-05506-1	N71-16346*	c 31	NASA-CASE-XMS-03613

		US-PATENT-APPL-SN-802816				US-PATENT-APPL-SN-270118	N71-17685*	c 15	NASA-CASE-NPO-10034
		US-PATENT-CLASS-244-1				US-PATENT-CLASS-230-162			US-PATENT-APPL-SN-668241
		US-PATENT-3,526,372				US-PATENT-3,309,012			US-PATENT-CLASS-339-17
N71-16348*	c 27	NASA-CASE-MSC-12280	N71-17626*	c 14	NASA-CASE-LAR-10274-1	N71-17686*	c 15		US-PATENT-3,464,051
		US-PATENT-APPL-SN-372648			US-PATENT-APPL-SN-717052				NASA-CASE-MFS-20586
		US-PATENT-CLASS-250-43.5			US-PATENT-CLASS-188-1				US-PATENT-APPL-SN-688868
		US-PATENT-3,501,632			US-PATENT-3,491,857				US-PATENT-CLASS-29-428
N71-16355*	c 23	NASA-CASE-XGS-05534	N71-17627*	c 14	NASA-CASE-XGS-03532	N71-17687*	c 15		US-PATENT-3,526,030
		US-PATENT-APPL-SN-578925			US-PATENT-APPL-SN-538913				NASA-CASE-XLA-04143
		US-PATENT-CLASS-23-253			US-PATENT-CLASS-356-106				US-PATENT-APPL-SN-628246
		US-PATENT-3,520,660			US-PATENT-3,488,123				US-PATENT-CLASS-156-510
N71-16356*	c 33	NASA-CASE-NPO-10158	N71-17628*	c 15	NASA-CASE-MFS-10340	N71-17688*	c 15		US-PATENT-3,508,999
		US-PATENT-APPL-SN-730702			US-PATENT-APPL-SN-716734				NASA-CASE-XLE-09527
		US-PATENT-CLASS-73-343			US-PATENT-CLASS-225-1				US-PATENT-APPL-SN-686344
		US-PATENT-3,526,134			US-PATENT-3,507,425				US-PATENT-CLASS-29-148.4
N71-16357*	c 33	NASA-CASE-NPO-10138	N71-17629*	c 31	NASA-CASE-XLE-03583	N71-17691*	c 31		US-PATENT-3,500,525
		US-PATENT-APPL-SN-759457			US-PATENT-APPL-SN-400617				NASA-CASE-XLA-00937
		US-PATENT-CLASS-236-1			US-PATENT-CLASS-244-3.22				US-PATENT-APPL-SN-393461
		US-PATENT-3,526,359			US-PATENT-3,276,376				US-PATENT-CLASS-244-3.14
N71-16365*	c 23	NASA-CASE-XNP-08840	N71-17631*	c 12	NASA-CASE-NPO-10122	N71-17692*	c 15		US-PATENT-3,310,258
		US-PATENT-APPL-SN-649360			US-PATENT-APPL-SN-710949				NASA-CASE-MFS-14772
		US-PATENT-CLASS-356-36			US-PATENT-CLASS-60-217				US-PATENT-APPL-SN-774151
		US-PATENT-3,526,460			US-PATENT-3,534,555				US-PATENT-CLASS-74-63
N71-16392*	c 27	NASA-CASE-XNP-09744	N71-17645*	c 32	NASA-CASE-XNP-01153	N71-17693*	c 15		US-PATENT-3,529,480
		US-PATENT-APPL-SN-685750			US-PATENT-APPL-SN-336608				NASA-CASE-NPO-10064
		US-PATENT-CLASS-60-39.47			US-PATENT-CLASS-73-88				US-PATENT-APPL-SN-668755
		US-PATENT-3,507,114			US-PATENT-3,273,381				US-PATENT-CLASS-244-1
N71-16393*	c 17	NASA-CASE-NPO-10271	N71-17647*	c 15	NASA-CASE-XMF-01667	N71-17694*	c 15		US-PATENT-3,501,112
		US-PATENT-APPL-SN-763869			US-PATENT-APPL-SN-577115				NASA-CASE-XNP-08897
		US-PATENT-CLASS-21-207			US-PATENT-CLASS-118-11				US-PATENT-APPL-SN-640450
		US-PATENT-3,529,928			US-PATENT-3,502,051				US-PATENT-CLASS-318-22
N71-16428*	c 32	NASA-CASE-XLA-03135	N71-17648*	c 15	NASA-CASE-MSC-12116-1	N71-17696*	c 15		US-PATENT-3,501,683
		US-PATENT-APPL-SN-582171			US-PATENT-APPL-SN-768336				NASA-CASE-XLA-05100
		US-PATENT-CLASS-73-71.4			US-PATENT-CLASS-251-358				US-PATENT-APPL-SN-724551
		US-PATENT-3,503,251			US-PATENT-3,508,739				US-PATENT-CLASS-73-103
N71-16894*	c 12	NASA-CASE-XLA-02079	N71-17649*	c 15	NASA-CASE-MFS-11132				US-PATENT-3,487,680
		US-PATENT-APPL-SN-435756			US-PATENT-APPL-SN-744910	N71-17701*	c 14		NASA-CASE-NPO-10144
		US-PATENT-CLASS-188-87			US-PATENT-CLASS-248-360				US-PATENT-APPL-SN-688805
		US-PATENT-3,310,138			US-PATENT-3,526,382				US-PATENT-CLASS-73-29
N71-17569*	c 12	NASA-CASE-MSC-12084-1	N71-17650*	c 15	NASA-CASE-XMF-05114				US-PATENT-3,534,585
		US-PATENT-APPL-SN-762438			US-PATENT-APPL-SN-637882	N71-17705*	c 06		NASA-CASE-XGS-05532
		US-PATENT-CLASS-73-204			US-PATENT-CLASS-29-517				US-PATENT-APPL-SN-570093
		US-PATENT-3,500,686			US-PATENT-3,507,034				US-PATENT-CLASS-195-99
N71-17573*	c 12	NASA-CASE-LAR-10323-1	N71-17651*	c 15	NASA-CASE-XLE-03803-2				US-PATENT-3,423,290
		US-PATENT-APPL-SN-738314			US-PATENT-APPL-SN-669336	N71-17729*	c 31		NASA-CASE-XAC-01591
		US-PATENT-CLASS-73-45.5			US-PATENT-CLASS-156-172				US-PATENT-APPL-SN-385527
		US-PATENT-3,516,284			US-PATENT-3,535,179				US-PATENT-CLASS-244-1
N71-17574*	c 14	NASA-CASE-XGS-04993	N71-17652*	c 15	NASA-CASE-XLE-05079				US-PATENT-3,282,532
		US-PATENT-APPL-SN-577775			US-PATENT-APPL-SN-601228	N71-17730*	c 31		NASA-CASE-XMF-01543
		US-PATENT-CLASS-96-49			US-PATENT-CLASS-310-93				US-PATENT-APPL-SN-402365
		US-PATENT-3,458,313			US-PATENT-3,493,797				US-PATENT-CLASS-102-49
N71-17575*	c 14	NASA-CASE-XMF-06531	N71-17653*	c 15	NASA-CASE-ARC-10140-1				US-PATENT-3,286,629
		US-PATENT-APPL-SN-732917			US-PATENT-APPL-SN-783379	N71-17788*	c 30		NASA-CASE-XGS-00783
		US-PATENT-CLASS-204-195			US-PATENT-CLASS-24-211				US-PATENT-APPL-SN-372438
		US-PATENT-3,509,034			US-PATENT-CLASS-85-3				US-PATENT-CLASS-73-432
N71-17578*	c 12	NASA-CASE-MFS-10412			US-PATENT-3,534,650				US-PATENT-3,286,531
		US-PATENT-APPL-SN-701635	N71-17654*	c 15	NASA-CASE-XNP-09702	N71-17802*	c 23		NASA-CASE-XLE-00454
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-730734				US-PATENT-APPL-SN-295855
		US-PATENT-3,520,317			US-PATENT-CLASS-239-416				US-PATENT-CLASS-73-295
N71-17579*	c 12	NASA-CASE-XLA-07391			US-PATENT-3,534,909				US-PATENT-3,273,392
		US-PATENT-APPL-SN-726898	N71-17655*	c 14	NASA-CASE-NPO-10320	N71-17803*	c 15		NASA-CASE-XMS-05516
		US-PATENT-CLASS-137-81.5			US-PATENT-APPL-SN-718689				US-PATENT-APPL-SN-563648
		US-PATENT-3,493,004			US-PATENT-CLASS-356-106				US-PATENT-CLASS-264-92
N71-17584*	c 14	NASA-CASE-XNP-09462			US-PATENT-3,535,041				US-PATENT-3,488,414
		US-PATENT-APPL-SN-658957	N71-17656*	c 14	NASA-CASE-MFS-12827	N71-17805*	c 15		NASA-CASE-MFS-12805
		US-PATENT-CLASS-73-57			US-PATENT-APPL-SN-742816				US-PATENT-APPL-SN-758082
		US-PATENT-3,500,677			US-PATENT-CLASS-73-88.5				US-PATENT-CLASS-192-43.1
N71-17585*	c 14	NASA-CASE-XGS-05680			US-PATENT-3,534,592				US-PATENT-CLASS-81-63.1
		US-PATENT-APPL-SN-656953	N71-17657*	c 14	NASA-CASE-XNP-09205				US-PATENT-3,534,836
		US-PATENT-CLASS-318-138			US-PATENT-APPL-SN-768473	N71-17818*	c 26		NASA-CASE-XMF-01016
		US-PATENT-3,501,664			US-PATENT-CLASS-33-149				US-PATENT-APPL-SN-326299
N71-17586*	c 14	NASA-CASE-XLA-08646			US-PATENT-3,534,479				US-PATENT-CLASS-264-27
		US-PATENT-APPL-SN-677476	N71-17658*	c 14	NASA-CASE-XMF-04966				US-PATENT-3,274,304
		US-PATENT-CLASS-73-105			US-PATENT-APPL-SN-727480	N71-17822*	c 15		NASA-CASE-ARC-10009-1
		US-PATENT-3,534,596			US-PATENT-CLASS-33-174				US-PATENT-APPL-SN-714595
N71-17587*	c 14	NASA-CASE-XMF-05844			US-PATENT-3,534,480				US-PATENT-CLASS-324-58.5
		US-PATENT-APPL-SN-706564	N71-17659*	c 14	NASA-CASE-XMF-02964				US-PATENT-3,532,973
		US-PATENT-CLASS-73-382			US-PATENT-APPL-SN-493942	N71-17897*	c 33		NASA-CASE-XLA-00892
		US-PATENT-3,500,688			US-PATENT-CLASS-73-15.4				US-PATENT-APPL-SN-245941
N71-17588*	c 14	NASA-CASE-MFS-12806			US-PATENT-3,465,569				US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-686933	N71-17661*	c 12	NASA-CASE-NPO-10298				US-PATENT-3,273,355
		US-PATENT-CLASS-55-179			US-PATENT-APPL-SN-745852	N71-18064*	c 26		NASA-CASE-XNP-01328
		US-PATENT-3,490,205			US-PATENT-CLASS-137-341				US-PATENT-APPL-SN-296879
N71-17599*	c 05	NASA-CASE-MSC-12206-1			US-PATENT-3,534,765				US-PATENT-CLASS-317-234
		US-PATENT-APPL-SN-856258	N71-17662*	c 14	NASA-CASE-NPO-10300				US-PATENT-3,271,637
		US-PATENT-CLASS-128-142.5			US-PATENT-APPL-SN-718769	N71-18132*	c 15		NASA-CASE-MFS-13686
		US-PATENT-3,516,404			US-PATENT-CLASS-350-285				US-PATENT-APPL-SN-716183
N71-17600*	c 11	NASA-CASE-MFS-12915			US-PATENT-3,535,024				US-PATENT-CLASS-73-67.2
		US-PATENT-APPL-SN-694340	N71-17679*	c 31	NASA-CASE-XNP-02507				US-PATENT-3,531,982
		US-PATENT-CLASS-220-89			US-PATENT-APPL-SN-475299	N71-18465*	c 14		NASA-CASE-NPO-10174
		US-PATENT-3,469,734			US-PATENT-CLASS-244-1				US-PATENT-APPL-SN-690163
N71-17609*	c 32	NASA-CASE-XLA-02332			US-PATENT-3,310,256				US-PATENT-CLASS-95-11
		US-PATENT-APPL-SN-388024	N71-17680*	c 31	NASA-CASE-XLA-00117				US-PATENT-3,520,238
		US-PATENT-CLASS-212-11			US-PATENT-APPL-SN-835153	N71-18481*	c 14		NASA-CASE-XLA-02758
		US-PATENT-3,276,602			US-PATENT-CLASS-220-1				US-PATENT-APPL-SN-759665
N71-17610*	c 33	NASA-CASE-XLA-00377			US-PATENT-2,996,212				US-PATENT-CLASS-73-4

N71-18482*	c 14	US-PATENT-3,531,978	N71-18699*	c 14	US-PATENT-3,507,706	N71-19433*	c 07	US-PATENT-3,517,318
		NASA-CASE-XLA-07424			NASA-CASE-XLA-03273			NASA-CASE-MFS-13046
N71-18483*	c 14	US-PATENT-APPL-SN-635326	N71-18701*	c 15	US-PATENT-APPL-SN-487352	N71-19435*	c 08	US-PATENT-APPL-SN-673228
		US-PATENT-CLASS-313-7			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-178-6
N71-18483*	c 14	US-PATENT-3,466,484	N71-18701*	c 15	US-PATENT-3,458,702	N71-19435*	c 08	US-PATENT-3,532,807
		NASA-CASE-XER-09519			NASA-CASE-XMF-07587			NASA-CASE-XGS-02612
N71-18578*	c 11	US-PATENT-APPL-SN-676375	N71-18720*	c 09	US-PATENT-APPL-SN-649359	N71-19436*	c 07	US-PATENT-APPL-SN-502743
		US-PATENT-CLASS-55-208			US-PATENT-CLASS-317-122			US-PATENT-CLASS-340-347
N71-18578*	c 11	US-PATENT-3,469,375	N71-18720*	c 09	US-PATENT-3,448,346	N71-19436*	c 07	US-PATENT-3,509,558
		NASA-CASE-XAC-05902			NASA-CASE-MSC-12101			NASA-CASE-XMF-09422
N71-18579*	c 15	US-PATENT-APPL-SN-662828	N71-18721*	c 09	US-PATENT-APPL-SN-763705	N71-19437*	c 08	US-PATENT-APPL-SN-783378
		US-PATENT-CLASS-89-8			US-PATENT-CLASS-343-718			US-PATENT-CLASS-174-35
N71-18579*	c 15	US-PATENT-3,465,638	N71-18721*	c 09	US-PATENT-3,509,570	N71-19437*	c 08	US-PATENT-3,517,109
		NASA-CASE-XGS-04175			NASA-CASE-XER-07894			NASA-CASE-XGS-04768
N71-18580*	c 15	US-PATENT-APPL-SN-606464	N71-18722*	c 10	US-PATENT-APPL-SN-644444	N71-19438*	c 03	US-PATENT-APPL-SN-598119
		US-PATENT-CLASS-72-364			US-PATENT-CLASS-331-107			US-PATENT-CLASS-235-158
N71-18580*	c 15	US-PATENT-3,465,567	N71-18722*	c 10	US-PATENT-3,509,491	N71-19438*	c 03	US-PATENT-3,508,039
		NASA-CASE-XNP-09698			NASA-CASE-ERC-10046			NASA-CASE-XGS-05432
N71-18594*	c 08	US-PATENT-APPL-SN-698592	N71-18723*	c 10	US-PATENT-APPL-SN-793772	N71-19440*	c 05	US-PATENT-APPL-SN-549860
		US-PATENT-CLASS-138-4			US-PATENT-CLASS-343-100			US-PATENT-CLASS-320-23
N71-18594*	c 08	US-PATENT-CLASS-138-45	N71-18723*	c 10	US-PATENT-3,501,764	N71-19440*	c 05	US-PATENT-3,426,263
		US-PATENT-CLASS-251-118			NASA-CASE-XNP-09450			NASA-CASE-XMS-09571
N71-18594*	c 08	US-PATENT-CLASS-251-121	N71-18724*	c 10	US-PATENT-APPL-SN-640459	N71-19449*	c 09	US-PATENT-APPL-SN-678700
		US-PATENT-3,532,128			US-PATENT-CLASS-307-273			US-PATENT-CLASS-165-46
N71-18595*	c 08	NASA-CASE-XAC-04031	N71-18724*	c 10	US-PATENT-3,501,649	N71-19466*	c 09	US-PATENT-3,425,487
		US-PATENT-APPL-SN-538905			NASA-CASE-XLA-09371	N71-19467*	c 10	NASA-CASE-XMS-01177
N71-18595*	c 08	US-PATENT-CLASS-340-347	N71-18751*	c 08	US-PATENT-APPL-SN-568160		N71-19467*	US-PATENT-APPL-SN-516150
		US-PATENT-3,533,098	N71-18751*	c 08	US-PATENT-CLASS-318-257			US-PATENT-CLASS-250-83
N71-18595*	c 08	NASA-CASE-XGS-03303			US-PATENT-3,504,258	N71-19468*	c 10	US-PATENT-3,427,454
		US-PATENT-APPL-SN-520838	N71-18752*	c 08	NASA-CASE-XLA-07732	N71-19468*	c 10	NASA-CASE-XFR-03107
N71-18598*	c 09	US-PATENT-CLASS-340-174			US-PATENT-APPL-SN-641441			US-PATENT-APPL-SN-507257
		US-PATENT-3,501,752	N71-18752*	c 08	US-PATENT-CLASS-307-216	N71-19469*	c 10	US-PATENT-CLASS-178-6
N71-18598*	c 09	NASA-CASE-NPO-10066			US-PATENT-3,512,009			US-PATENT-3,458,651
N71-18599*	c 09	US-PATENT-APPL-SN-681693	N71-18772*	c 10	NASA-CASE-XMF-00663	N71-19470*	c 09	NASA-CASE-XGS-02812
		US-PATENT-CLASS-343-13			US-PATENT-APPL-SN-205470			US-PATENT-APPL-SN-502750
N71-18599*	c 09	US-PATENT-3,447,155	N71-18772*	c 10	US-PATENT-CLASS-321-5	N71-19471*	c 10	US-PATENT-CLASS-330-30
		NASA-CASE-LAR-10372			US-PATENT-3,521,143			US-PATENT-3,466,560
N71-18600*	c 09	US-PATENT-APPL-SN-730162	N71-18773*	c 11	NASA-CASE-GSC-10366-1	N71-19472*	c 10	NASA-CASE-XMF-08665
		US-PATENT-CLASS-102-70.2			US-PATENT-APPL-SN-771523			US-PATENT-APPL-SN-582609
N71-18600*	c 09	US-PATENT-3,500,747	N71-18773*	c 11	US-PATENT-CLASS-318-138	N71-19472*	c 10	US-PATENT-CLASS-325-63
		NASA-CASE-MSC-12168-1	N71-18830*	c 09	US-PATENT-3,532,948			US-PATENT-3,470,475
N71-18602*	c 08	US-PATENT-APPL-SN-640154			NASA-CASE-XMF-07488	N71-19479*	c 09	NASA-CASE-XMS-05605-1
		US-PATENT-CLASS-312-296	N71-18830*	c 09	US-PATENT-APPL-SN-707495			US-PATENT-APPL-SN-764812
N71-18602*	c 08	US-PATENT-3,447,850			US-PATENT-CLASS-35-12	N71-19479*	c 10	US-PATENT-CLASS-178-69.5
		NASA-CASE-XGS-04766	N71-18843*	c 09	US-PATENT-3,534,485		N71-19479*	US-PATENT-3,532,819
N71-18602*	c 08	US-PATENT-APPL-SN-598120			NASA-CASE-XAC-10768	N71-19479*	c 10	NASA-CASE-XNP-00777
		US-PATENT-CLASS-235-175	N71-18843*	c 09	US-PATENT-APPL-SN-711970			US-PATENT-APPL-SN-486573
N71-18603*	c 12	US-PATENT-3,532,866			US-PATENT-CLASS-250-83	N71-19479*	c 09	US-PATENT-CLASS-329-122
		NASA-CASE-ERC-10031	N71-19212*	c 21	US-PATENT-3,508,053			US-PATENT-3,517,268
N71-18603*	c 12	US-PATENT-APPL-SN-741461			NASA-CASE-XNP-03263	N71-19479*	c 10	NASA-CASE-XGS-05289
		US-PATENT-CLASS-40-28	N71-19212*	c 21	US-PATENT-APPL-SN-506908			US-PATENT-APPL-SN-632104
N71-18611*	c 31	US-PATENT-3,516,185			US-PATENT-CLASS-340-146.1	N71-19479*	c 10	US-PATENT-CLASS-331-113
		NASA-CASE-MFS-20400	N71-19213*	c 15	US-PATENT-3,501,743			US-PATENT-3,470,496
N71-18611*	c 31	US-PATENT-APPL-SN-551694			NASA-CASE-MFS-20386	N71-19479*	c 10	NASA-CASE-XLE-03804
		US-PATENT-CLASS-152-11	N71-19213*	c 15	US-PATENT-APPL-SN-818349			US-PATENT-APPL-SN-526631
N71-18613*	c 15	US-PATENT-3,493,027			US-PATENT-CLASS-356-28	N71-19479*	c 10	US-PATENT-CLASS-307-235
		NASA-CASE-XNP-02588	N71-19214*	c 15	US-PATENT-3,532,427			US-PATENT-3,463,939
N71-18613*	c 15	US-PATENT-APPL-SN-563644			NASA-CASE-MFS-14259	N71-19479*	c 10	NASA-CASE-XAC-04030
		US-PATENT-CLASS-219-91	N71-19214*	c 15	US-PATENT-APPL-SN-787410			US-PATENT-APPL-SN-520839
N71-18614*	c 16	US-PATENT-3,466,418			US-PATENT-CLASS-138-43	N71-19480*	c 09	US-PATENT-CLASS-328-1
		NASA-CASE-XGS-03644	N71-19214*	c 15	US-PATENT-3,536,103			US-PATENT-3,464,016
N71-18614*	c 16	US-PATENT-APPL-SN-505320			NASA-CASE-MFS-20410	N71-19480*	c 09	NASA-CASE-XMS-04300
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N71-21404*	c 15	NASA-CASE-XLA-01262 US-PATENT-APPL-SN-386800 US-PATENT-CLASS-156-3 US-PATENT-3,356,549	N71-21819*	c 27	NASA-CASE-XLE-03494 US-PATENT-APPL-SN-529593 US-PATENT-CLASS-60-251 US-PATENT-3,345,822	N71-22874*	c 15	NASA-CASE-XLA-00188 US-PATENT-APPL-SN-254847 US-PATENT-CLASS-102-49.5 US-PATENT-3,368,486
N71-21449*	c 09	NASA-CASE-XMS-01991 US-PATENT-APPL-SN-410326 US-PATENT-CLASS-323-22 US-PATENT-3,344,340	N71-21821*	c 23	NASA-CASE-XNP-01059 US-PATENT-APPL-SN-393464 US-PATENT-CLASS-250-232 US-PATENT-3,354,320	N71-22875*	c 11	NASA-CASE-XAC-05333 US-PATENT-APPL-SN-546148 US-PATENT-CLASS-119-15 US-PATENT-3,367,308
N71-21473*	c 10	NASA-CASE-XGS-08679 US-PATENT-APPL-SN-312443 US-PATENT-CLASS-343-113 US-PATENT-3,340,532	N71-21822*	c 28	NASA-CASE-XNP-04124 US-PATENT-APPL-SN-498168 US-PATENT-CLASS-60-202 US-PATENT-3,345,820	N71-22877*	c 15	NASA-CASE-XMF-10040 US-PATENT-APPL-SN-592680 US-PATENT-CLASS-188-1 US-PATENT-3,381,778
N71-21474*	c 11	NASA-CASE-XMS-04798 US-PATENT-APPL-SN-480210 US-PATENT-CLASS-35-12 US-PATENT-3,330,052	N71-21824*	c 26	NASA-CASE-XNP-05429 US-PATENT-APPL-SN-578928 US-PATENT-CLASS-103-1 US-PATENT-3,361,067	N71-22878*	c 15	NASA-CASE-XMS-04545 US-PATENT-APPL-SN-508601 US-PATENT-CLASS-73-144 US-PATENT-3,381,527
N71-21475*	c 11	NASA-CASE-XLA-05378 US-PATENT-APPL-SN-484156 US-PATENT-CLASS-73-343 US-PATENT-3,331,246	N71-21881*	c 31	NASA-CASE-XNP-02595 US-PATENT-APPL-SN-502709 US-PATENT-CLASS-244-1 US-PATENT-3,333,788	N71-22880*	c 21	NASA-CASE-XLA-00793 US-PATENT-APPL-SN-369334 US-PATENT-CLASS-88-1 US-PATENT-3,381,569
N71-21476*	c 07	NASA-CASE-XNP-00746 US-PATENT-APPL-SN-271824 US-PATENT-CLASS-235-181 US-PATENT-3,359,409	N71-21882*	c 23	NASA-CASE-XNP-03853 US-PATENT-APPL-SN-578931 US-PATENT-CLASS-88-24 US-PATENT-3,359,855	N71-22881*	c 23	NASA-CASE-XLE-04222 US-PATENT-APPL-SN-512559 US-PATENT-CLASS-220-9 US-PATENT-3,379,330
N71-21481*	c 11	NASA-CASE-XLA-01326 US-PATENT-APPL-SN-422097 US-PATENT-CLASS-73-147	N71-22705*	c 15	NASA-CASE-XGS-02884 US-PATENT-APPL-SN-432433 US-PATENT-CLASS-51-57	N71-22888*	c 09	NASA-CASE-XLA-03114 US-PATENT-APPL-SN-440039 US-PATENT-CLASS-343-708

N71-22890*	c 33	US-PATENT-3,373,430 NASA-CASE-XLA-07728 US-PATENT-APPL-SN-538908 US-PATENT-CLASS-165-96 US-PATENT-3,374,830	N71-22993*	c 14	US-PATENT-3,377,845 NASA-CASE-XMS-05365 US-PATENT-APPL-SN-516484 US-PATENT-CLASS-310-8.5 US-PATENT-3,387,149	N71-23037*	c 14	US-PATENT-3,383,903 NASA-CASE-XAC-01662 US-PATENT-APPL-SN-385520 US-PATENT-CLASS-324-117 US-PATENT-3,365,665
N71-22894*	c 18	NASA-CASE-XLE-03925 US-PATENT-APPL-SN-514407 US-PATENT-CLASS-75-204 US-PATENT-3,337,337	N71-22994*	c 15	NASA-CASE-XFR-05421 US-PATENT-APPL-SN-567686 US-PATENT-CLASS-24-126 US-PATENT-3,378,892	N71-23039*	c 14	NASA-CASE-XNP-01659 US-PATENT-APPL-SN-410332 US-PATENT-CLASS-136-230 US-PATENT-3,377,208
N71-22895*	c 16	NASA-CASE-XMS-04269 US-PATENT-APPL-SN-516793 US-PATENT-CLASS-250-199 US-PATENT-3,341,708	N71-22995*	c 14	NASA-CASE-XNP-08680 US-PATENT-APPL-SN-562444 US-PATENT-CLASS-73-9 US-PATENT-3,376,730	N71-23040*	c 14	NASA-CASE-XNP-05535 US-PATENT-APPL-SN-487939 US-PATENT-CLASS-244-1 US-PATENT-3,339,863
N71-22896*	c 05	NASA-CASE-XMS-02399 US-PATENT-APPL-SN-492344 US-PATENT-CLASS-128-2.06 US-PATENT-3,384,075	N71-22996*	c 14	NASA-CASE-XGS-01331 US-PATENT-APPL-SN-445807 US-PATENT-CLASS-250-218 US-PATENT-3,388,258	N71-23041*	c 14	NASA-CASE-XNP-01056 US-PATENT-APPL-SN-377146 US-PATENT-CLASS-250-41.9 US-PATENT-3,340,395
N71-22897*	c 08	NASA-CASE-XNP-01753 US-PATENT-APPL-SN-423412 US-PATENT-CLASS-235-92 US-PATENT-3,374,339	N71-22997*	c 15	NASA-CASE-XNP-01641 US-PATENT-APPL-SN-464885 US-PATENT-CLASS-308-10 US-PATENT-3,378,315	N71-23042*	c 11	NASA-CASE-XMS-02930 US-PATENT-APPL-SN-417253 US-PATENT-CLASS-250-52 US-PATENT-3,340,397
N71-22961*	c 10	NASA-CASE-XMS-02159 US-PATENT-APPL-SN-534564 US-PATENT-CLASS-323-56 US-PATENT-3,365,657	N71-22998*	c 18	NASA-CASE-XGS-02435 US-PATENT-APPL-SN-392965 US-PATENT-CLASS-106-40 US-PATENT-3,382,082	N71-23043*	c 26	NASA-CASE-XNP-01959 US-PATENT-APPL-SN-410330 US-PATENT-CLASS-136-89 US-PATENT-3,396,057
N71-22962*	c 10	NASA-CASE-XGS-05441 US-PATENT-APPL-SN-505321 US-PATENT-CLASS-328-233 US-PATENT-3,366,886	N71-22999*	c 09	NASA-CASE-XLA-00781 US-PATENT-APPL-SN-307271 US-PATENT-CLASS-88-14 US-PATENT-3,364,813	N71-23046*	c 17	NASA-CASE-XNP-04338 US-PATENT-APPL-SN-461765 US-PATENT-CLASS-29-182.2 US-PATENT-3,421,864
N71-22964*	c 14	NASA-CASE-XLE-02024 US-PATENT-APPL-SN-422099 US-PATENT-CLASS-73-15 US-PATENT-3,365,930	N71-23001*	c 07	NASA-CASE-XGS-01812 US-PATENT-APPL-SN-392973 US-PATENT-CLASS-340-174.1 US-PATENT-3,380,042	N71-23047*	c 18	NASA-CASE-XLA-01995 US-PATENT-APPL-SN-411945 US-PATENT-CLASS-148-6.16 US-PATENT-3,395,053
N71-22965*	c 14	NASA-CASE-XGS-02319 US-PATENT-APPL-SN-496205 US-PATENT-CLASS-73-117 US-PATENT-3,365,941	N71-23006*	c 03	NASA-CASE-XGS-02631 US-PATENT-APPL-SN-425972 US-PATENT-CLASS-136-133 US-PATENT-3,340,099	N71-23048*	c 15	NASA-CASE-XNP-03972 US-PATENT-APPL-SN-502710 US-PATENT-CLASS-184-1 US-PATENT-3,367,445
N71-22968*	c 31	NASA-CASE-XLA-02050 US-PATENT-APPL-SN-568067 US-PATENT-CLASS-244-1 US-PATENT-3,386,885	N71-23007*	c 02	NASA-CASE-XMF-04163 US-PATENT-APPL-SN-424156 US-PATENT-CLASS-73-189 US-PATENT-3,340,732	N71-23049*	c 15	NASA-CASE-XMF-01049 US-PATENT-APPL-SN-506137 US-PATENT-CLASS-339-5 US-PATENT-3,375,479
N71-22969*	c 31	NASA-CASE-XLA-03132 US-PATENT-APPL-SN-610728 US-PATENT-CLASS-244-1 US-PATENT-3,386,686	N71-23008*	c 31	NASA-CASE-XLA-04804 US-PATENT-APPL-SN-577546 US-PATENT-CLASS-102-49.5 US-PATENT-3,384,016	N71-23050*	c 15	NASA-CASE-XMF-01730 US-PATENT-APPL-SN-517869 US-PATENT-CLASS-228-8 US-PATENT-3,373,914
N71-22974*	c 03	NASA-CASE-XGS-02630 US-PATENT-APPL-SN-494287 US-PATENT-CLASS-136-132 US-PATENT-3,382,107	N71-23009*	c 31	NASA-CASE-XGS-02607 US-PATENT-APPL-SN-474531 US-PATENT-CLASS-244-1 US-PATENT-3,341,151	N71-23051*	c 15	NASA-CASE-XAC-01158 US-PATENT-APPL-SN-420250 US-PATENT-CLASS-137-625.5 US-PATENT-3,369,564
N71-22975*	c 06	NASA-CASE-XNP-07659 US-PATENT-APPL-SN-567806 US-PATENT-CLASS-18-26 US-PATENT-3,381,339	N71-23015*	c 09	NASA-CASE-XGS-02751 US-PATENT-APPL-SN-491059 US-PATENT-CLASS-307-288 US-PATENT-3,374,366	N71-23052*	c 15	NASA-CASE-XLA-03497 US-PATENT-APPL-SN-392992 US-PATENT-CLASS-156-285 US-PATENT-3,373,069
N71-22982*	c 15	NASA-CASE-XLA-02809 US-PATENT-APPL-SN-554897 US-PATENT-CLASS-308-176 US-PATENT-3,397,932	N71-23021*	c 09	NASA-CASE-XAC-02807 US-PATENT-APPL-SN-456581 US-PATENT-CLASS-324-120 US-PATENT-3,384,820	N71-23080*	c 05	NASA-CASE-XLE-02531 US-PATENT-APPL-SN-425096 US-PATENT-CLASS-312-1 US-PATENT-3,337,279
N71-22983*	c 28	NASA-CASE-XMF-06926 US-PATENT-APPL-SN-537615 US-PATENT-CLASS-60-258 US-PATENT-3,336,754	N71-23022*	c 15	NASA-CASE-XMS-01625 US-PATENT-APPL-SN-418933 US-PATENT-CLASS-136-86 US-PATENT-3,389,017	N71-23081*	c 28	NASA-CASE-XNP-02923 US-PATENT-APPL-SN-494280 US-PATENT-CLASS-60-202 US-PATENT-3,367,114
N71-22984*	c 07	NASA-CASE-XMS-04312 US-PATENT-APPL-SN-521754 US-PATENT-CLASS-343-708 US-PATENT-3,384,895	N71-23023*	c 15	NASA-CASE-XMF-04042 US-PATENT-APPL-SN-605518 US-PATENT-CLASS-55-204 US-PATENT-3,397,512	N71-23084*	c 10	NASA-CASE-XLA-01219 US-PATENT-APPL-SN-402978 US-PATENT-CLASS-332-1 US-PATENT-3,366,894
N71-22985*	c 09	NASA-CASE-XMF-03934 US-PATENT-APPL-SN-530958 US-PATENT-CLASS-250-83.3 US-PATENT-3,379,885	N71-23024*	c 15	NASA-CASE-XNP-01747 US-PATENT-APPL-SN-413661 US-PATENT-CLASS-251-148 US-PATENT-3,341,169	N71-23085*	c 33	NASA-CASE-XFR-03802 US-PATENT-APPL-SN-460877 US-PATENT-CLASS-73-190 US-PATENT-3,367,182
N71-22986*	c 10	NASA-CASE-XMF-01892 US-PATENT-APPL-SN-464878 US-PATENT-CLASS-328-167 US-PATENT-3,375,451	N71-23025*	c 15	NASA-CASE-XNP-08877 US-PATENT-APPL-SN-574282 US-PATENT-CLASS-62-6 US-PATENT-3,367,121	N71-23086*	c 15	NASA-CASE-XMS-04533 US-PATENT-APPL-SN-557016 US-PATENT-CLASS-202-234 US-PATENT-3,397,117
N71-22987*	c 09	NASA-CASE-XLE-04788 US-PATENT-APPL-SN-537617 US-PATENT-CLASS-313-352 US-PATENT-3,396,303	N71-23026*	c 07	NASA-CASE-XNP-02791 US-PATENT-APPL-SN-390251 US-PATENT-CLASS-178-6 US-PATENT-3,383,461	N71-23087*	c 14	NASA-CASE-XNP-03918 US-PATENT-APPL-SN-510475 US-PATENT-CLASS-73-88.5 US-PATENT-3,388,590
N71-22988*	c 09	NASA-CASE-XGS-03304 US-PATENT-APPL-SN-483886 US-PATENT-CLASS-73-1 US-PATENT-3,381,517	N71-23027*	c 09	NASA-CASE-XNP-01960 US-PATENT-APPL-SN-438135 US-PATENT-CLASS-29-572 US-PATENT-3,340,599	N71-23088*	c 18	NASA-CASE-XNP-00597 US-PATENT-APPL-SN-410325 US-PATENT-CLASS-65-7 US-PATENT-3,337,315
N71-22989*	c 14	NASA-CASE-XLA-01551 US-PATENT-APPL-SN-422092 US-PATENT-CLASS-73-190 US-PATENT-3,382,714	N71-23029*	c 10	NASA-CASE-XGS-03427 US-PATENT-APPL-SN-500446 US-PATENT-CLASS-307-265 US-PATENT-3,383,524	N71-23092*	c 14	NASA-CASE-XLA-01530 US-PATENT-APPL-SN-420466 US-PATENT-CLASS-188-1 US-PATENT-3,337,004
N71-22990*	c 14	NASA-CASE-XMS-04201 US-PATENT-APPL-SN-507254 US-PATENT-CLASS-324-70 US-PATENT-3,379,974	N71-23030*	c 11	NASA-CASE-XNP-03578 US-PATENT-APPL-SN-445292 US-PATENT-CLASS-73-147 US-PATENT-3,342,066	N71-23093*	c 14	NASA-CASE-XLE-03280 US-PATENT-APPL-SN-517156 US-PATENT-CLASS-73-400 US-PATENT-3,379,064
N71-22991*	c 14	NASA-CASE-XLA-01791 US-PATENT-APPL-SN-462763 US-PATENT-CLASS-250-227 US-PATENT-3,397,318	N71-23033*	c 10	NASA-CASE-XNP-01318 US-PATENT-APPL-SN-380965 US-PATENT-CLASS-340-174 US-PATENT-3,388,387	N71-23096*	c 05	NASA-CASE-XMS-06064 US-PATENT-APPL-SN-563646 US-PATENT-CLASS-2-14 US-PATENT-3,378,851
N71-22992*	c 14	NASA-CASE-XGS-01023 US-PATENT-APPL-SN-446131 US-PATENT-CLASS-73-65	N71-23036*	c 14	NASA-CASE-XNP-01660 US-PATENT-APPL-SN-578916 US-PATENT-CLASS-73-4	N71-23097*	c 09	NASA-CASE-XNP-02140 US-PATENT-APPL-SN-440036 US-PATENT-CLASS-330-61

N71-23098*	c 07	US-PATENT-3,337,812	N71-23269*	c 14	US-PATENT-3,419,329	N71-23544*	c 10	US-PATENT-3,393,347
		NASA-CASE-XGS-00740			NASA-CASE-XLA-01584			NASA-CASE-XNP-05382
		US-PATENT-APPL-SN-353644			US-PATENT-APPL-SN-416943			US-PATENT-APPL-SN-536217
N71-23099*	c 10	US-PATENT-CLASS-325-305	N71-23270*	c 09	US-PATENT-CLASS-250-203	N71-23545*	c 09	US-PATENT-CLASS-332-19
		US-PATENT-3,341,778			US-PATENT-3,389,260			US-PATENT-3,393,380
		NASA-CASE-XNP-08875			NASA-CASE-XMS-04919			NASA-CASE-XMF-04367
N71-23159*	c 05	US-PATENT-APPL-SN-640455	N71-23271*	c 10	US-PATENT-APPL-SN-516155	N71-23548*	c 09	US-PATENT-APPL-SN-457874
		US-PATENT-CLASS-343-6.5			US-PATENT-CLASS-307-263			US-PATENT-CLASS-307-235
		US-PATENT-3,380,049			US-PATENT-3,417,266			US-PATENT-3,404,289
N71-23161*	c 05	NASA-CASE-XMF-06589	N71-23289*	c 21	NASA-CASE-XNP-00952	N71-23573*	c 09	NASA-CASE-XNP-06507
		US-PATENT-APPL-SN-543206			US-PATENT-APPL-SN-388967			US-PATENT-APPL-SN-605099
		US-PATENT-CLASS-5-82			US-PATENT-CLASS-317-148.5			US-PATENT-CLASS-333-98
N71-23174*	c 14	US-PATENT-3,343,180	N71-23292*	c 26	US-PATENT-3,417,298	N71-23598*	c 09	US-PATENT-3,419,827
		NASA-CASE-XAC-07043			NASA-CASE-XMF-01669			NASA-CASE-XGS-01418
		US-PATENT-APPL-SN-566397			US-PATENT-APPL-SN-399419			US-PATENT-APPL-SN-392969
N71-23175*	c 14	US-PATENT-CLASS-2-2.1	N71-23293*	c 28	US-PATENT-CLASS-74-5.47	N71-23599*	c 22	US-PATENT-CLASS-333-73
		US-PATENT-3,405,406			US-PATENT-3,415,126			US-PATENT-3,393,384
		NASA-CASE-XGS-02610			NASA-CASE-XLE-10715			NASA-CASE-XER-11019
N71-23185*	c 04	US-PATENT-APPL-SN-491054	N71-23295*	c 08	US-PATENT-APPL-SN-603397	N71-23654*	c 26	US-PATENT-APPL-SN-711971
		US-PATENT-CLASS-321-60			US-PATENT-CLASS-252-62.3			US-PATENT-CLASS-331-78
		US-PATENT-3,417,316			US-PATENT-3,409,554			US-PATENT-3,470,489
N71-23187*	c 03	NASA-CASE-XKS-03509	N71-23311*	c 09	NASA-CASE-XNP-06942	N71-23658*	c 18	NASA-CASE-XLE-01903
		US-PATENT-APPL-SN-551182			US-PATENT-APPL-SN-502739			US-PATENT-APPL-SN-466868
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-307-260			US-PATENT-CLASS-310-4
N71-23188*	c 09	US-PATENT-3,419,433	N71-23315*	c 10	US-PATENT-3,412,559	N71-23662*	c 10	US-PATENT-3,393,330
		NASA-CASE-XMF-14301			NASA-CASE-XNP-04819			NASA-CASE-XLE-02798
		US-PATENT-APPL-SN-697341			US-PATENT-APPL-SN-502701			US-PATENT-APPL-SN-660571
N71-23189*	c 09	US-PATENT-CLASS-321-2	N71-23316*	c 09	US-PATENT-CLASS-340-146.2	N71-23663*	c 10	US-PATENT-CLASS-148-1.5
		US-PATENT-3,470,446			US-PATENT-3,390,378			US-PATENT-3,390,020
		NASA-CASE-XNP-06028			NASA-CASE-XGS-03632			NASA-CASE-XLE-02647
N71-23190*	c 09	US-PATENT-APPL-SN-649356	N71-23317*	c 05	US-PATENT-APPL-SN-502739	N71-23669*	c 10	US-PATENT-APPL-SN-430226
		US-PATENT-CLASS-315-26			US-PATENT-CLASS-307-260			US-PATENT-CLASS-220-9
		US-PATENT-3,431,460			US-PATENT-3,390,282			US-PATENT-3,392,864
N71-23191*	c 09	NASA-CASE-XLE-04501	N71-23336*	c 03	NASA-CASE-XLA-03356	N71-23698*	c 14	NASA-CASE-XGS-01118
		US-PATENT-APPL-SN-522794			US-PATENT-APPL-SN-536216			US-PATENT-APPL-SN-408442
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-307-234			US-PATENT-CLASS-235-154
N71-23199*	c 09	US-PATENT-3,413,510	N71-23354*	c 03	US-PATENT-3,448,290	N71-23699*	c 14	US-PATENT-3,399,299
		NASA-CASE-XMS-05890			NASA-CASE-XMS-09352			NASA-CASE-XKS-04631
		US-PATENT-APPL-SN-650166			US-PATENT-APPL-SN-564919			US-PATENT-APPL-SN-663180
N71-23225*	c 14	US-PATENT-CLASS-137-554	N71-23365*	c 17	US-PATENT-CLASS-323-22	N71-23710*	c 18	US-PATENT-CLASS-200-82
		US-PATENT-3,414,012			US-PATENT-3,417,321			US-PATENT-3,433,909
		NASA-CASE-XNP-04817			NASA-CASE-XMS-06061			NASA-CASE-XAC-10607
N71-23226*	c 14	US-PATENT-APPL-SN-522794	N71-23401*	c 14	US-PATENT-APPL-SN-605092	N71-23723*	c 30	US-PATENT-APPL-SN-694345
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-307-260			US-PATENT-CLASS-331-111
		US-PATENT-3,413,510			US-PATENT-3,467,837			US-PATENT-3,470,495
N71-23227*	c 14	NASA-CASE-XMS-05890	N71-23405*	c 07	NASA-CASE-XGS-01513	N71-23725*	c 14	NASA-CASE-XGS-08259
		US-PATENT-APPL-SN-650166			US-PATENT-APPL-SN-502756			US-PATENT-APPL-SN-666551
		US-PATENT-CLASS-137-554			US-PATENT-CLASS-136-166			US-PATENT-CLASS-242-192
N71-23228*	c 14	US-PATENT-3,414,012	N71-23443*	c 09	US-PATENT-3,390,017	N71-23726*	c 14	US-PATENT-3,460,781
		NASA-CASE-XNP-04817			NASA-CASE-XLE-04535			NASA-CASE-XMF-10289
		US-PATENT-APPL-SN-516152			US-PATENT-APPL-SN-588671			US-PATENT-APPL-SN-674356
N71-23229*	c 14	US-PATENT-CLASS-73-12	N71-23449*	c 03	US-PATENT-CLASS-250-212	N71-23755*	c 14	US-PATENT-CLASS-324-72
		US-PATENT-3,412,598			US-PATENT-3,437,818			US-PATENT-3,470,466
		NASA-CASE-XNP-06509			NASA-CASE-XNP-03063			NASA-CASE-XLE-08511
N71-23230*	c 06	US-PATENT-APPL-SN-570095	N71-23497*	c 01	US-PATENT-APPL-SN-521994	N71-23790*	c 14	US-PATENT-APPL-SN-635972
		US-PATENT-CLASS-73-194			US-PATENT-CLASS-75-172			US-PATENT-CLASS-29-182.1
		US-PATENT-3,411,356			US-PATENT-3,413,115			US-PATENT-3,419,363
N71-23231*	c 14	NASA-CASE-XMF-06515	N71-23499*	c 06	NASA-CASE-XGS-03230	N71-23797*	c 14	US-PATENT-APPL-SN-665209
		US-PATENT-APPL-SN-548808			US-PATENT-APPL-SN-517158			US-PATENT-CLASS-73-133
		US-PATENT-CLASS-73-432			US-PATENT-CLASS-250-83			US-PATENT-3,460,381
N71-23232*	c 06	US-PATENT-3,408,870	N71-23500*	c 06	US-PATENT-3,419,992	N71-23798*	c 15	US-PATENT-3,417,399
		NASA-CASE-XMF-06409			NASA-CASE-XGS-01537			NASA-CASE-XGS-01013
		US-PATENT-APPL-SN-575930			US-PATENT-APPL-SN-432026			US-PATENT-APPL-SN-665209
N71-23233*	c 03	US-PATENT-CLASS-260-448.2	N71-23525*	c 09	US-PATENT-CLASS-325-163	N71-23809*	c 15	US-PATENT-CLASS-73-133
		US-PATENT-3,433,818			US-PATENT-3,417,332			US-PATENT-3,460,381
		NASA-CASE-XMF-08217			NASA-CASE-XLE-02823			NASA-CASE-XMF-05224
N71-23240*	c 14	US-PATENT-APPL-SN-688807	N71-23543*	c 10	US-PATENT-APPL-SN-491058	N71-23810*	c 15	US-PATENT-APPL-SN-660842
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-310-10			US-PATENT-CLASS-73-189
		US-PATENT-3,470,443			US-PATENT-3,393,332			US-PATENT-3,465,584
N71-23248*	c 17	NASA-CASE-XLA-00941	N71-23544*	c 10	NASA-CASE-XLE-08569	N71-23811*	c 15	NASA-CASE-XMF-04134
		US-PATENT-APPL-SN-508873			US-PATENT-APPL-SN-641420			US-PATENT-APPL-SN-610723
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-136-89			US-PATENT-CLASS-73-4
N71-23249*	c 17	US-PATENT-3,407,304	N71-23545*	c 10	US-PATENT-3,472,698	N71-23811*	c 15	US-PATENT-3,472,059
		NASA-CASE-XLE-03629			NASA-CASE-XLA-01486			NASA-CASE-XAC-04885
		US-PATENT-APPL-SN-554950			US-PATENT-APPL-SN-484485			US-PATENT-APPL-SN-573432
N71-23254*	c 15	US-PATENT-CLASS-75-170	N71-23546*	c 10	US-PATENT-CLASS-244-13	N71-23811*	c 15	US-PATENT-CLASS-73-141
		US-PATENT-3,415,643			US-PATENT-3,392,936			US-PATENT-3,415,116
		NASA-CASE-XFR-05302			NASA-CASE-XNP-03835			NASA-CASE-XNP-06510
N71-23255*	c 15	US-PATENT-APPL-SN-685463	N71-23547*	c 10	US-PATENT-APPL-SN-456874	N71-23811*	c 15	US-PATENT-APPL-SN-562445
		US-PATENT-CLASS-85-7			US-PATENT-CLASS-44-77			US-PATENT-CLASS-250-203
		US-PATENT-3,443,472			US-PATENT-3,393,059			US-PATENT-3,417,247
N71-23256*	c 15	NASA-CASE-XMS-07487	N71-23550*	c 06	NASA-CASE-XNP-03250	N71-23811*	c 15	NASA-CASE-XMF-02330
		US-PATENT-APPL-SN-580365			US-PATENT-APPL-SN-485058			US-PATENT-APPL-SN-608944
		US-PATENT-CLASS-244-83			US-PATENT-CLASS-260-85.5			US-PATENT-CLASS-219-130
N71-23257*	c 15	US-PATENT-3,409,252	N71-23551*	c 09	US-PATENT-3,419,537	N71-23811*	c 15	US-PATENT-3,469,069
		NASA-CASE-XMF-03290			NASA-CASE-XGS-02317			NASA-CASE-XAC-10019
		US-PATENT-APPL-SN-479353			US-PATENT-APPL-SN-576183			US-PATENT-APPL-SN-686209
N71-23267*	c 14	US-PATENT-CLASS-53-22	N71-23552*	c 06	US-PATENT-CLASS-328-61	N71-23811*	c 15	US-PATENT-CLASS-74-89.18
		US-PATENT-3,415,032			US-PATENT-3,464,018			US-PATENT-3,472,086
		NASA-CASE-XLE-04026			NASA-CASE-XLE-01997			NASA-CASE-XLE-05033
N71-23268*	c 14	US-PATENT-APPL-SN-617770	N71-23553*	c 10	US-PATENT-APPL-SN-427990	N71-23811*	c 15	US-PATENT-APPL-SN-510474
		US-PATENT-CLASS-13-26			US-PATENT-CLASS-23-230			US-PATENT-CLASS-252-12
		US-PATENT-3,470,304			US-PATENT-3,472,625			US-PATENT-3,466,243
N71-23269*	c 14	NASA-CASE-XLA-01907	N71-23554*	c 10	NASA-CASE-XMS-00913	N71-23811*	c 15	NASA-CASE-XNP-05297
		US-PATENT-APPL-SN-335441			US-PATENT-APPL-SN-416945			US-PATENT-APPL-SN-640458
		US-PATENT-CLASS-356-72			US-PATENT-CLASS-317-31			US-PATENT-CLASS-72-354

N71-23812*	c 15	US-PATENT-3,443,412 NASA-CASE-XMF-07808 US-PATENT-APPL-SN-684178 US-PATENT-CLASS-308-2 US-PATENT-3,463,563	N71-24232*	c 14	US-PATENT-3,434,855 NASA-CASE-XAC-04458 US-PATENT-APPL-SN-534975 US-PATENT-CLASS-73-400 US-PATENT-3,392,586	N71-24623*	c 05	US-PATENT-CLASS-324-77 US-PATENT-3,548,107 NASA-CASE-XMS-09635 US-PATENT-APPL-SN-586329 US-PATENT-CLASS-2-2.1 US-PATENT-3,516,091
N71-23815*	c 15	NASA-CASE-XMF-07089 US-PATENT-APPL-SN-672382 US-PATENT-CLASS-219-125 US-PATENT-3,469,068	N71-24233*	c 14	NASA-CASE-XGS-04478 US-PATENT-APPL-SN-566717 US-PATENT-CLASS-73-88.5 US-PATENT-3,460,378	N71-24624*	c 07	NASA-CASE-GSC-10131-1 US-PATENT-APPL-SN-754055 US-PATENT-CLASS-340-172.5 US-PATENT-3,546,684
N71-23816*	c 15	NASA-CASE-XLE-03803 US-PATENT-APPL-SN-505765 US-PATENT-CLASS-220-9 US-PATENT-3,392,865	N71-24234*	c 14	NASA-CASE-XMF-10968 US-PATENT-APPL-SN-644447 US-PATENT-CLASS-73-15.6 US-PATENT-3,469,437	N71-24625*	c 07	NASA-CASE-XMS-09610 US-PATENT-APPL-SN-766170 US-PATENT-CLASS-343-113 US-PATENT-3,540,054
N71-23817*	c 15	NASA-CASE-XLE-06773 US-PATENT-APPL-SN-646124 US-PATENT-CLASS-72-467 US-PATENT-3,469,436	N71-24276*	c 33	NASA-CASE-XLA-02059 US-PATENT-APPL-SN-576182 US-PATENT-CLASS-165-12 US-PATENT-3,406,742	N71-24633*	c 08	NASA-CASE-NPO-10567 US-PATENT-APPL-SN-679055 US-PATENT-CLASS-235-153 US-PATENT-3,517,171
N71-23828*	c 17	NASA-CASE-XMF-02303 US-PATENT-APPL-SN-453229 US-PATENT-CLASS-148-6.20 US-PATENT-3,416,975	N71-24285*	c 32	NASA-CASE-XMF-02392 US-PATENT-APPL-SN-596735 US-PATENT-CLASS-73-49.2 US-PATENT-3,399,574	N71-24650*	c 08	NASA-CASE-NPO-10150 US-PATENT-APPL-SN-660843 US-PATENT-CLASS-340-347 US-PATENT-3,537,103
N71-23912*	c 31	NASA-CASE-XMF-05941 US-PATENT-APPL-SN-653277 US-PATENT-CLASS-244-1 US-PATENT-3,443,773	N71-24315*	c 31	NASA-CASE-XLA-04901 US-PATENT-APPL-SN-586325 US-PATENT-CLASS-244-1 US-PATENT-3,405,887	N71-24679*	c 15	NASA-CASE-XNP-10475 US-PATENT-APPL-SN-763868 US-PATENT-CLASS-72-369 US-PATENT-3,546,917
N71-23968*	c 28	NASA-CASE-XLE-04857 US-PATENT-APPL-SN-621742 US-PATENT-CLASS-239-127.1 US-PATENT-3,460,759	N71-24321*	c 28	NASA-CASE-XNP-03692 US-PATENT-APPL-SN-640787 US-PATENT-CLASS-60-263 US-PATENT-3,443,384	N71-24681*	c 03	NASA-CASE-XLE-08569-2 US-PATENT-APPL-SN-829825 US-PATENT-CLASS-29-572 US-PATENT-3,541,679
N71-23971*	c 32	NASA-CASE-XAC-05632 US-PATENT-APPL-SN-568355 US-PATENT-CLASS-244-77 US-PATENT-3,412,961	N71-24583*	c 07	NASA-CASE-NPO-10096 US-PATENT-APPL-SN-730700 US-PATENT-CLASS-329-140 US-PATENT-3,533,001	N71-24692*	c 12	NASA-CASE-XFR-02007 US-PATENT-APPL-SN-378080 US-PATENT-CLASS-73-389 US-PATENT-3,273,399
N71-23976*	c 23	NASA-CASE-XLA-01987 US-PATENT-APPL-SN-542713 US-PATENT-CLASS-346-107 US-PATENT-3,392,403	N71-24595*	c 09	NASA-CASE-GSC-10021-1 US-PATENT-APPL-SN-790420 US-PATENT-CLASS-343-7.5 US-PATENT-3,540,045	N71-24693*	c 14	NASA-CASE-XMF-04415 US-PATENT-APPL-SN-644446 US-PATENT-CLASS-33-174 US-PATENT-3,360,864
N71-24035*	c 31	NASA-CASE-XLA-01027 US-PATENT-APPL-SN-494283 US-PATENT-CLASS-52-272 US-PATENT-3,416,274	N71-24596*	c 09	NASA-CASE-XNP-01306-2 US-PATENT-APPL-SN-684083 US-PATENT-CLASS-328-133 US-PATENT-3,509,475	N71-24694*	c 15	NASA-CASE-GSC-10306-1 US-PATENT-APPL-SN-789278 US-PATENT-CLASS-248-358 US-PATENT-3,537,672
N71-24042*	c 15	NASA-CASE-XNP-04731 US-PATENT-APPL-SN-534966 US-PATENT-CLASS-103-48 US-PATENT-3,367,271	N71-24597*	c 09	NASA-CASE-ARC-10132-1 US-PATENT-APPL-SN-759460 US-PATENT-CLASS-73-398 US-PATENT-3,545,275	N71-24695*	c 15	NASA-CASE-XNP-06936 US-PATENT-APPL-SN-640786 US-PATENT-CLASS-318-382 US-PATENT-3,487,281
N71-24043*	c 15	NASA-CASE-XKS-03338 US-PATENT-APPL-SN-547072 US-PATENT-CLASS-89-1.806 US-PATENT-3,415,156	N71-24599*	c 15	NASA-CASE-MSC-12052-1 US-PATENT-APPL-SN-770371 US-PATENT-CLASS-254-150 US-PATENT-CLASS-254-173 US-PATENT-CLASS-254-186	N71-24696*	c 15	NASA-CASE-NPO-10173 US-PATENT-APPL-SN-796360 US-PATENT-CLASS-310-101 US-PATENT-3,535,570
N71-24044*	c 15	NASA-CASE-XMF-06888 US-PATENT-APPL-SN-591000 US-PATENT-CLASS-62-40 US-PATENT-3,415,069	N71-24600*	c 15	US-PATENT-3,545,725 NASA-CASE-XGS-08718 US-PATENT-APPL-SN-785611 US-PATENT-CLASS-244-1 US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24717*	c 09	NASA-CASE-XMF-08804 US-PATENT-APPL-SN-683606 US-PATENT-CLASS-324-181 US-PATENT-3,543,159
N71-24045*	c 15	NASA-CASE-XGS-04548 US-PATENT-APPL-SN-672383 US-PATENT-CLASS-74-100 US-PATENT-3,460,397	N71-24605*	c 03	US-PATENT-CLASS-244-150 US-PATENT-CLASS-74-2 US-PATENT-CLASS-89-1.5 US-PATENT-CLASS-9-9 US-PATENT-3,540,676	N71-24718*	c 03	NASA-CASE-MSC-10960-1 US-PATENT-APPL-SN-751198 US-PATENT-CLASS-204-305 US-PATENT-3,547,801
N71-24046*	c 15	NASA-CASE-XLE-10337 US-PATENT-APPL-SN-594633 US-PATENT-CLASS-252-26 US-PATENT-3,391,080	N71-24606*	c 05	NASA-CASE-XNP-04758 US-PATENT-APPL-SN-557861 US-PATENT-CLASS-320-17 US-PATENT-3,413,536	N71-24719*	c 03	NASA-CASE-GSC-10487-1 US-PATENT-APPL-SN-828983 US-PATENT-CLASS-320-39 US-PATENT-3,541,422
N71-24047*	c 15	NASA-CASE-XGS-03120 US-PATENT-APPL-SN-485958 US-PATENT-CLASS-156-3 US-PATENT-3,470,043	N71-24607*	c 06	NASA-CASE-XKS-10804 US-PATENT-APPL-SN-691909 US-PATENT-CLASS-35-17 US-PATENT-3,508,347	N71-24725*	c 23	NASA-CASE-GSC-10188-1 US-PATENT-APPL-SN-791888 US-PATENT-CLASS-62-384 US-PATENT-3,545,226
N71-24074*	c 16	NASA-CASE-XLA-03375 US-PATENT-APPL-SN-512562 US-PATENT-CLASS-356-104 US-PATENT-3,446,558	N71-24608*	c 06	US-PATENT-CLASS-35-17 US-PATENT-3,508,347 NASA-CASE-XNP-09699 US-PATENT-APPL-SN-711972 US-PATENT-CLASS-73-17 US-PATENT-3,546,920	N71-24728*	c 05	NASA-CASE-MSC-12243-1 US-PATENT-APPL-SN-857445 US-PATENT-CLASS-244-1 US-PATENT-3,537,668
N71-24142*	c 17	NASA-CASE-XLE-06969 US-PATENT-APPL-SN-655675 US-PATENT-CLASS-148-126 US-PATENT-3,463,679	N71-24612*	c 07	NASA-CASE-XMF-06092 US-PATENT-APPL-SN-550088 US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318	N71-24729*	c 05	NASA-CASE-MSC-13282-1 US-PATENT-APPL-SN-8498 US-PATENT-CLASS-128-2.1 US-PATENT-3,548,812
N71-24145*	c 33	NASA-CASE-XLE-03432 US-PATENT-APPL-SN-559349 US-PATENT-CLASS-13-35 US-PATENT-3,409,730	N71-24613*	c 07	US-PATENT-CLASS-178-7.1 US-PATENT-3,470,318 NASA-CASE-NPO-10851 US-PATENT-APPL-SN-805406 US-PATENT-CLASS-325-325 US-PATENT-3,551,816	N71-24730*	c 05	NASA-CASE-XMS-09637-1 US-PATENT-APPL-SN-785710 US-PATENT-CLASS-2-2.1 US-PATENT-3,537,107
N71-24147*	c 05	NASA-CASE-XMS-10269 US-PATENT-APPL-SN-590158 US-PATENT-CLASS-165-46 US-PATENT-3,425,486	N71-24614*	c 07	US-PATENT-CLASS-325-325 US-PATENT-3,551,816 NASA-CASE-XKS-09340 US-PATENT-APPL-SN-666555 US-PATENT-CLASS-343-703 US-PATENT-3,540,056	N71-24736*	c 28	NASA-CASE-XLE-03157 US-PATENT-APPL-SN-591014 US-PATENT-CLASS-60-240 US-PATENT-3,408,816
N71-24164*	c 15	NASA-CASE-XLA-01494 US-PATENT-APPL-SN-499122 US-PATENT-CLASS-156-545 US-PATENT-3,416,988	N71-24618*	c 09	US-PATENT-CLASS-343-703 US-PATENT-3,540,056 NASA-CASE-FRC-10029 US-PATENT-APPL-SN-760389 US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105	N71-24737*	c 05	NASA-CASE-ARC-10100-1 US-PATENT-APPL-SN-797058 US-PATENT-CLASS-128-24 US-PATENT-CLASS-128-25 US-PATENT-3,550,585
N71-24170*	c 16	NASA-CASE-XLA-04295 US-PATENT-APPL-SN-546149 US-PATENT-CLASS-356-107 US-PATENT-3,468,609	N71-24621*	c 07	US-PATENT-CLASS-128-2.06 US-PATENT-3,547,105 NASA-CASE-GSC-10118-1 US-PATENT-APPL-SN-783375 US-PATENT-CLASS-179-15 US-PATENT-CLASS-325-4 US-PATENT-CLASS-343-100 US-PATENT-3,546,386	N71-24739*	c 06	NASA-CASE-ARC-10098-1 US-PATENT-APPL-SN-702967 US-PATENT-CLASS-260-2.5 US-PATENT-3,549,564
N71-24183*	c 18	NASA-CASE-XGS-04799 US-PATENT-APPL-SN-452944 US-PATENT-CLASS-106-84 US-PATENT-3,416,939	N71-24622*	c 07	US-PATENT-CLASS-343-100 US-PATENT-3,546,386 NASA-CASE-NPO-10388 US-PATENT-APPL-SN-725432 US-PATENT-CLASS-179-15	N71-24740*	c 06	NASA-CASE-XMF-03074 US-PATENT-APPL-SN-593595 US-PATENT-CLASS-260-72.5 US-PATENT-3,516,971
N71-24184*	c 18	NASA-CASE-XNP-02139 US-PATENT-APPL-SN-430777 US-PATENT-CLASS-106-84				N71-24741*	c 07	NASA-CASE-NPO-10118

		US-PATENT-APPL-SN-704465			US-PATENT-APPL-SN-698630	N71-24910*	c 15	NASA-CASE-ERC-10045
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-333-83			US-PATENT-APPL-SN-763685
		US-PATENT-3,541,314			US-PATENT-3,541,479			US-PATENT-CLASS-73-40.7
N71-24742*	c 07	NASA-CASE-NPO-10140	N71-24842*	c 09	NASA-CASE-MSC-12209	N71-24911*	c 17	NASA-CASE-XLE-04946
		US-PATENT-APPL-SN-691737			US-PATENT-APPL-SN-881039			US-PATENT-APPL-SN-605093
		US-PATENT-CLASS-187-7.1			US-PATENT-CLASS-343-797			US-PATENT-CLASS-118-308
		US-PATENT-3,541,250			US-PATENT-3,546,705			US-PATENT-3,472,202
N71-24750*	c 31	NASA-CASE-XGS-01654	N71-24843*	c 09	NASA-CASE-XMF-06617	N71-24934*	c 18	NASA-CASE-NPO-10051
		US-PATENT-APPL-SN-434148			US-PATENT-APPL-SN-656993			US-PATENT-APPL-SN-711898
		US-PATENT-CLASS-102-50			US-PATENT-CLASS-324-71			US-PATENT-CLASS-73-38
		US-PATENT-3,282,541			US-PATENT-3,541,439			US-PATENT-3,548,633
N71-24798*	c 10	NASA-CASE-XLE-03061-1	N71-24844*	c 10	NASA-CASE-NPO-10169	N71-24948*	c 21	NASA-CASE-ERC-10090
		US-PATENT-APPL-SN-632152			US-PATENT-APPL-SN-701733			US-PATENT-APPL-SN-811542
		US-PATENT-CLASS-340-412			US-PATENT-CLASS-328-171			US-PATENT-CLASS-343-112
		US-PATENT-3,546,694			US-PATENT-3,541,459			US-PATENT-3,550,129
N71-24799*	c 10	NASA-CASE-XNP-06505	N71-24857*	c 23	NASA-CASE-XMS-06056-1	N71-24964*	c 11	NASA-CASE-NPO-10141
		US-PATENT-APPL-SN-562933			US-PATENT-APPL-SN-532006			US-PATENT-APPL-SN-673227
		US-PATENT-CLASS-307-254			US-PATENT-CLASS-350-189			US-PATENT-CLASS-62-55.5
		US-PATENT-3,501,648			US-PATENT-3,472,577			US-PATENT-3,443,390
N71-24800*	c 09	NASA-CASE-ERC-10075	N71-24858*	c 33	NASA-CASE-MFS-14253	N71-24984*	c 15	NASA-CASE-MFS-14971
		US-PATENT-APPL-SN-775870			US-PATENT-APPL-SN-709622			US-PATENT-APPL-SN-827579
		US-PATENT-CLASS-321-45			US-PATENT-CLASS-161-69			US-PATENT-CLASS-74-468
		US-PATENT-3,539,905			US-PATENT-3,551,266			US-PATENT-3,541,875
N71-24803*	c 09	NASA-CASE-NPO-10242	N71-24861*	c 10	NASA-CASE-XMF-05195	N71-24985*	c 11	NASA-CASE-KSC-10126
		US-PATENT-APPL-SN-749181			US-PATENT-APPL-SN-785595			US-PATENT-APPL-SN-845973
		US-PATENT-CLASS-307-88			US-PATENT-CLASS-318-599			US-PATENT-CLASS-73-15
		US-PATENT-3,541,346			US-PATENT-3,523,228			US-PATENT-3,545,252
N71-24804*	c 09	NASA-CASE-GSC-10299-1	N71-24862*	c 10	NASA-CASE-FRC-10010	N71-25139*	c 10	NASA-CASE-MFS-10068
		US-PATENT-APPL-SN-836367			US-PATENT-APPL-SN-771937			US-PATENT-APPL-SN-700541
		US-PATENT-CLASS-343-100			US-PATENT-CLASS-307-235			US-PATENT-CLASS-321-9
		US-PATENT-3,540,050			US-PATENT-3,543,050			US-PATENT-3,487,288
N71-24805*	c 09	NASA-CASE-XMF-06892	N71-24863*	c 10	NASA-CASE-XMF-02966	N71-25213*	c 28	NASA-CASE-GSC-10709-1
		US-PATENT-APPL-SN-757875			US-PATENT-APPL-SN-560968			US-PATENT-APPL-SN-791288
		US-PATENT-CLASS-318-318			US-PATENT-CLASS-324-70			US-PATENT-CLASS-60-202
		US-PATENT-3,546,553			US-PATENT-3,406,336			US-PATENT-3,545,208
N71-24806*	c 09	NASA-CASE-NPO-10198	N71-24864*	c 14	NASA-CASE-XLE-04503	N71-25351*	c 33	NASA-CASE-MFS-14023
		US-PATENT-APPL-SN-723804			US-PATENT-APPL-SN-606463			US-PATENT-APPL-SN-795217
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-250-225			US-PATENT-CLASS-161-161
		US-PATENT-3,550,023			US-PATENT-3,546,471			US-PATENT-CLASS-220-9
N71-24807*	c 09	NASA-CASE-MFS-14114-2	N71-24865*	c 15	NASA-CASE-XMF-05114-3			US-PATENT-CLASS-52-249
		US-PATENT-APPL-SN-854815			US-PATENT-APPL-SN-837378			US-PATENT-CLASS-52-404
		US-PATENT-CLASS-165-105			US-PATENT-CLASS-72-56			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-165-107			US-PATENT-3,540,250			US-PATENT-3,540,615
		US-PATENT-CLASS-165-138	N71-24868*	c 23	NASA-CASE-ERC-10001	N71-25353*	c 33	NASA-CASE-MFS-20355
		US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-712099			US-PATENT-APPL-SN-845974
		US-PATENT-3,537,515			US-PATENT-CLASS-350-310			US-PATENT-CLASS-165-104
N71-24808*	c 09	NASA-CASE-XNP-08880			US-PATENT-3,540,802			US-PATENT-CLASS-165-105
		US-PATENT-APPL-SN-605094	N71-24875*	c 15	NASA-CASE-XLA-06199			US-PATENT-CLASS-165-133
		US-PATENT-CLASS-333-98			US-PATENT-APPL-SN-702911			US-PATENT-CLASS-219-378
		US-PATENT-3,416,106			US-PATENT-CLASS-148-6.11			US-PATENT-CLASS-219-530
N71-24809*	c 14	NASA-CASE-XNP-08961			US-PATENT-3,540,942			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-661170	N71-24876*	c 33	NASA-CASE-XNP-05524			US-PATENT-3,548,930
		US-PATENT-CLASS-250-84			US-PATENT-APPL-SN-250567	N71-25360*	c 32	NASA-CASE-XLA-08530
		US-PATENT-3,487,216			US-PATENT-CLASS-165-2			US-PATENT-APPL-SN-808577
N71-24813*	c 31	NASA-CASE-XAC-06029-1			US-PATENT-3,270,802			US-PATENT-CLASS-73-90
		US-PATENT-APPL-SN-588651	N71-24890*	c 08	NASA-CASE-XKS-06167			US-PATENT-3,546,931
		US-PATENT-CLASS-343-100			US-PATENT-APPL-SN-649076	N71-25434*	c 31	NASA-CASE-MSC-13047-1
		US-PATENT-3,540,048			US-PATENT-CLASS-235-155			US-PATENT-APPL-SN-850586
N71-24828*	c 16	NASA-CASE-XAC-10770-1			US-PATENT-3,535,497			US-PATENT-CLASS-244-1
		US-PATENT-APPL-SN-690997	N71-24891*	c 08	NASA-CASE-XNP-09759			US-PATENT-CLASS-244-113
		US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-606462			US-PATENT-CLASS-244-138
		US-PATENT-3,547,540			US-PATENT-CLASS-235-92			US-PATENT-3,547,376
N71-24830*	c 17	NASA-CASE-XNP-04148			US-PATENT-3,541,312	N71-25490*	c 26	NASA-CASE-ERC-10088
		US-PATENT-APPL-SN-536210	N71-24892*	c 09	NASA-CASE-NPO-10716			US-PATENT-APPL-SN-760927
		US-PATENT-CLASS-204-38			US-PATENT-APPL-SN-851394			US-PATENT-CLASS-73-141
		US-PATENT-3,472,742			US-PATENT-CLASS-307-104			US-PATENT-3,537,305
N71-24831*	c 16	NASA-CASE-NPO-10548			US-PATENT-CLASS-317-123	N71-25555*	c 24	NASA-CASE-XNP-09469
		US-PATENT-APPL-SN-775072			US-PATENT-CLASS-317-148.5			US-PATENT-APPL-SN-845573
		US-PATENT-CLASS-330-4			US-PATENT-3,549,955			US-PATENT-CLASS-204-168
		US-PATENT-3,486,123	N71-24893*	c 09	NASA-CASE-ERC-10125			US-PATENT-3,540,989
N71-24832*	c 16	NASA-CASE-ERC-10178			US-PATENT-APPL-SN-773029	N71-25865*	c 10	NASA-CASE-KSC-10002
		US-PATENT-APPL-SN-800973			US-PATENT-CLASS-323-56			US-PATENT-APPL-SN-782956
		US-PATENT-CLASS-331-94.5			US-PATENT-3,541,428			US-PATENT-CLASS-178-69.5
		US-PATENT-3,550,034	N71-24895*	c 15	NASA-CASE-XLA-07473			US-PATENT-3,567,861
N71-24833*	c 15	NASA-CASE-XMF-03793			US-PATENT-APPL-SN-839935	N71-25866*	c 09	NASA-CASE-ARC-10003-1
		US-PATENT-APPL-SN-453225			US-PATENT-CLASS-318-265			US-PATENT-APPL-SN-717822
		US-PATENT-CLASS-72-56			US-PATENT-3,546,552			US-PATENT-CLASS-178-66
		US-PATENT-3,360,972	N71-24896*	c 15	NASA-CASE-ERC-10034			US-PATENT-CLASS-179-100.2
N71-24834*	c 15	NASA-CASE-XNP-05634			US-PATENT-APPL-SN-763706			US-PATENT-3,549,799
		US-PATENT-APPL-SN-805096			US-PATENT-CLASS-250-43.5	N71-25881*	c 18	NASA-CASE-XGS-05180
		US-PATENT-CLASS-73-95			US-PATENT-3,549,882			US-PATENT-APPL-SN-721607
		US-PATENT-3,460,379	N71-24897*	c 15	NASA-CASE-XLA-03538			US-PATENT-CLASS-260-37
N71-24835*	c 15	NASA-CASE-NPO-10123			US-PATENT-APPL-SN-749149			US-PATENT-3,567,677
		US-PATENT-APPL-SN-731388			US-PATENT-CLASS-294-83	N71-25882*	c 10	NASA-CASE-GSC-10022-1
		US-PATENT-CLASS-128-272			US-PATENT-3,508,779			US-PATENT-APPL-SN-785546
		US-PATENT-CLASS-128-275			NASA-CASE-MFS-20395			US-PATENT-CLASS-331-113
		US-PATENT-3,540,449	N71-24903*	c 15	US-PATENT-APPL-SN-830715			US-PATENT-3,559,096
N71-24836*	c 15	NASA-CASE-XLE-08917-2			US-PATENT-CLASS-285-314	N71-25892*	c 14	NASA-CASE-XLA-04555-1
		US-PATENT-APPL-SN-852131			US-PATENT-CLASS-285-317			US-PATENT-APPL-SN-594584
		US-PATENT-CLASS-72-60			US-PATENT-CLASS-285-38			US-PATENT-CLASS-148-13
		US-PATENT-3,541,825			US-PATENT-CLASS-285-406			US-PATENT-3,468,727
N71-24840*	c 07	NASA-CASE-NPO-10649	N71-24904*	c 09	NASA-CASE-MFS-20385	N71-25899*	c 10	NASA-CASE-LEW-10345-1
		US-PATENT-APPL-SN-795182			US-PATENT-APPL-SN-853716			US-PATENT-APPL-SN-805298
		US-PATENT-CLASS-325-113			US-PATENT-CLASS-310-10			US-PATENT-CLASS-137-81.5
		US-PATENT-3,541,450			US-PATENT-3,541,361			US-PATENT-CLASS-235-201
N71-24841*	c 09	NASA-CASE-XNP-09771						

N71-25900*	c 10	US-PATENT-3,568,702 NASA-CASE-ERC-10032 US-PATENT-APPL-SN-757857 US-PATENT-CLASS-333-30 US-PATENT-CLASS-333-72	N71-26136*	c 14	US-PATENT-3,564,401 NASA-CASE-XLA-01782 US-PATENT-APPL-SN-576792 US-PATENT-CLASS-73-15.6 US-PATENT-3,472,060	N71-26293*	c 05	US-PATENT-APPL-SN-719870 US-PATENT-CLASS-325-67 US-PATENT-3,553,586 NASA-CASE-XFR-07658-1 US-PATENT-APPL-SN-586324 US-PATENT-CLASS-128-2.06
N71-25901*	c 14	US-PATENT-3,568,103 NASA-CASE-XLA-02810 US-PATENT-APPL-SN-764252 US-PATENT-CLASS-250-43.5 US-PATENT-CLASS-250-83.3 US-PATENT-CLASS-340-233 US-PATENT-CLASS-340-285	N71-26137*	c 14	US-PATENT-3,562,631 NASA-CASE-LAR-10305 US-PATENT-APPL-SN-811037 US-PATENT-CLASS-324-0.5 US-PATENT-CLASS-324-58.5	N71-26294*	c 15	US-PATENT-3,426,746 NASA-CASE-XNP-02862-1 US-PATENT-APPL-SN-556830 US-PATENT-CLASS-277-13 US-PATENT-3,468,548
N71-25903*	c 17	US-PATENT-3,569,710 NASA-CASE-XLA-08966-1 US-PATENT-APPL-SN-570678 US-PATENT-CLASS-204-33 US-PATENT-3,468,765	N71-26142*	c 10	US-PATENT-3,562,631 NASA-CASE-NPO-10302 US-PATENT-APPL-SN-848811 US-PATENT-CLASS-343-768 US-PATENT-3,553,704	N71-26312*	c 15	US-PATENT-3,481,638 NASA-CASE-XNP-01263-2 US-PATENT-APPL-SN-718279 US-PATENT-CLASS-287-189.365
N71-25914*	c 16	US-PATENT-3,469,087 NASA-CASE-XLA-03410 US-PATENT-APPL-SN-512561 US-PATENT-CLASS-250-199 US-PATENT-3,469,087	N71-26145*	c 15	US-PATENT-3,555,867 NASA-CASE-FRC-10005 US-PATENT-APPL-SN-756266 US-PATENT-CLASS-33-189 US-PATENT-3,562,919	N71-26326*	c 10	US-PATENT-3,472,019 NASA-CASE-NPO-10143 US-PATENT-APPL-SN-692331 US-PATENT-CLASS-58-24
N71-25917*	c 10	US-PATENT-3,569,956 NASA-CASE-NPO-10595 US-PATENT-APPL-SN-771760 US-PATENT-CLASS-340-347	N71-26148*	c 15	US-PATENT-3,555,867 NASA-CASE-XMF-05114-2 US-PATENT-APPL-SN-837377 US-PATENT-CLASS-72-56 US-PATENT-3,555,867	N71-26331*	c 10	US-PATENT-3,482,179 NASA-CASE-NXP-10854 US-PATENT-APPL-SN-668248 US-PATENT-CLASS-330-31
N71-25929*	c 06	US-PATENT-3,569,956 NASA-CASE-NPO-10596 US-PATENT-APPL-SN-756381 US-PATENT-CLASS-260-2.5 US-PATENT-3,557,027	N71-26153*	c 18	US-PATENT-3,540,790 NASA-CASE-XLE-03940 US-PATENT-APPL-SN-539255 US-PATENT-CLASS-148-126 US-PATENT-3,472,709	N71-26333*	c 05	US-PATENT-3,472,019 NASA-CASE-XMS-09652-1 US-PATENT-APPL-SN-618969 US-PATENT-CLASS-2-6
N71-25950*	c 10	US-PATENT-3,466,570 NASA-CASE-XGS-06226 US-PATENT-APPL-SN-676387 US-PATENT-CLASS-331-113 US-PATENT-3,466,570	N71-26154*	c 16	US-PATENT-3,540,790 NASA-CASE-ERC-10020 US-PATENT-APPL-SN-709399 US-PATENT-CLASS-350-3.5 US-PATENT-3,540,790	N71-26334*	c 10	US-PATENT-3,473,165 NASA-CASE-XLA-02619 US-PATENT-APPL-SN-796691 US-PATENT-CLASS-317-DIG.3
N71-25975*	c 15	US-PATENT-3,469,289 NASA-CASE-XMS-10660-1 US-PATENT-APPL-SN-797056 US-PATENT-CLASS-24-205.17	N71-26155*	c 18	US-PATENT-3,540,790 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26339*	c 10	US-PATENT-3,472,080 NASA-CASE-NPO-10185 US-PATENT-APPL-SN-723805 US-PATENT-CLASS-73-432
N71-25999*	c 09	US-PATENT-3,469,289 NASA-CASE-XGS-05290 US-PATENT-APPL-SN-754019 US-PATENT-CLASS-310-168 US-PATENT-CLASS-310-254 US-PATENT-CLASS-318-138	N71-26161*	c 14	US-PATENT-3,564,564 NASA-CASE-XLA-08254 US-PATENT-APPL-SN-867843 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-79	N71-26346*	c 15	US-PATENT-3,461,700 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26000*	c 09	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26162*	c 15	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26374*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26002*	c 09	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26173*	c 28	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26387*	c 12	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26008*	c 03	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26181*	c 07	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26414*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26085*	c 10	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26182*	c 09	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26415*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26092*	c 09	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26185*	c 15	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26418*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26100*	c 18	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26189*	c 15	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26434*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26101*	c 07	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26199*	c 14	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26474*	c 14	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26102*	c 07	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26206*	c 23	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26475*	c 14	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26103*	c 10	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26243*	c 15	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26531*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26110*	c 02	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26244*	c 14	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26537*	c 31	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26133*	c 09	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26266*	c 14	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26544*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26134*	c 15	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26285*	c 18	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26546*	c 12	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
N71-26135*	c 14	US-PATENT-3,569,804 NASA-CASE-XNP-08567 US-PATENT-APPL-SN-640783 US-PATENT-CLASS-307-88 US-PATENT-3,569,804	N71-26291*	c 07	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887	N71-26577*	c 10	US-PATENT-3,472,080 NASA-CASE-XLE-05841-1 US-PATENT-APPL-SN-605091 US-PATENT-CLASS-72-61
		US-PATENT-CLASS-324-43	N71-26292*	c 07	US-PATENT-3,564,564 NASA-CASE-LAR-10373-1 US-PATENT-APPL-SN-761007 US-PATENT-CLASS-260-2.5 US-PATENT-3,481,887			US-PATENT-CLASS-325-41

		US-PATENT-3,566,268			US-PATENT-APPL-SN-804172	N71-27094*	c 28	NASA-CASE-GSC-10710-1
N71-26579*	c 07	NASA-CASE-XMS-06740-1			US-PATENT-CLASS-313-63			US-PATENT-APPL-SN-828909
		US-PATENT-APPL-SN-554277			US-PATENT-CLASS-315-111			US-PATENT-CLASS-73-117.4
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-60-202			US-PATENT-3,572,104
		US-PATENT-3,470,313			US-PATENT-3,576,107	N71-27095*	c 28	NASA-CASE-MFS-20325
N71-26611*	c 15	NASA-CASE-MSC-11817-1	N71-26787*	c 09	NASA-CASE-XKS-05932			US-PATENT-APPL-SN-840176
		US-PATENT-APPL-SN-7668			US-PATENT-APPL-SN-752729			US-PATENT-CLASS-244-1
		US-PATENT-CLASS-165-44			US-PATENT-CLASS-240-11.2			US-PATENT-3,572,610
		US-PATENT-CLASS-165-86			US-PATENT-CLASS-240-11.4	N71-27126*	c 10	NASA-CASE-LEW-10233
		US-PATENT-CLASS-188-88			US-PATENT-CLASS-240-51.11			US-PATENT-APPL-SN-750787
		US-PATENT-CLASS-244-1			US-PATENT-CLASS-313-22			US-PATENT-CLASS-307-253
		US-PATENT-CLASS-244-57			US-PATENT-3,564,234			US-PATENT-CLASS-307-300
		US-PATENT-3,563,307	N71-26788*	c 14	NASA-CASE-MFS-20240			US-PATENT-3,566,158
N71-26626*	c 10	NASA-CASE-GSC-10891-1			US-PATENT-APPL-SN-825259	N71-27135*	c 15	NASA-CASE-HQN-10541-2
		US-PATENT-APPL-SN-568620			US-PATENT-CLASS-356-203			US-PATENT-APPL-SN-822088
		US-PATENT-CLASS-307-53			US-PATENT-3,571,668			US-PATENT-CLASS-219-121
		US-PATENT-3,480,789	N71-27001*	c 09	NASA-CASE-XGS-11177			US-PATENT-CLASS-331-94.5
N71-26627*	c 14	NASA-CASE-MFS-14017			US-PATENT-APPL-SN-828921			US-PATENT-3,571,555
		US-PATENT-APPL-SN-762956			US-PATENT-CLASS-317-33	N71-27136*	c 10	NASA-CASE-GSC-10065-1
		US-PATENT-CLASS-248-183			US-PATENT-CLASS-317-9			US-PATENT-APPL-SN-808462
		US-PATENT-CLASS-308-9			US-PATENT-3,571,656			US-PATENT-CLASS-318-571
		US-PATENT-3,559,937	N71-27005*	c 14	NASA-CASE-MFS-20261			US-PATENT-CLASS-318-653
N71-26635*	c 15	NASA-CASE-ERC-10022			US-PATENT-APPL-SN-845990			US-PATENT-3,568,028
		US-PATENT-APPL-SN-874733			US-PATENT-CLASS-1	N71-27137*	c 10	NASA-CASE-XNP-06234
		US-PATENT-CLASS-74-424.8			US-PATENT-CLASS-141-258			US-PATENT-APPL-SN-723827
		US-PATENT-CLASS-74-89.15			US-PATENT-CLASS-222-137			US-PATENT-CLASS-235-92
		US-PATENT-3,576,135			US-PATENT-CLASS-222-49			US-PATENT-CLASS-328-49
N71-26642*	c 28	NASA-CASE-LEW-10106-1			US-PATENT-3,568,885			US-PATENT-3,567,913
		US-PATENT-APPL-SN-758390	N71-27006*	c 15	NASA-CASE-LAR-10083-1	N71-27146*	c 15	NASA-CASE-LAR-10193-1
		US-PATENT-CLASS-60-202			US-PATENT-APPL-SN-837825			US-PATENT-APPL-SN-794968
		US-PATENT-3,552,124			US-PATENT-CLASS-73-147			US-PATENT-CLASS-188-1
N71-26654*	c 23	NASA-CASE-NPO-10467			US-PATENT-3,572,112			US-PATENT-CLASS-188-103
		US-PATENT-APPL-SN-798277	N71-27016*	c 09	NASA-CASE-GSC-11139			US-PATENT-3,568,805
		US-PATENT-CLASS-62-514			US-PATENT-APPL-SN-756511	N71-27147*	c 15	NASA-CASE-MSC-12121-1
		US-PATENT-3,564,866			US-PATENT-CLASS-307-234			US-PATENT-APPL-SN-783374
N71-26672*	c 14	NASA-CASE-ERC-10033			US-PATENT-CLASS-307-246			US-PATENT-CLASS-91-390
		US-PATENT-APPL-SN-801660			US-PATENT-CLASS-307-273			US-PATENT-CLASS-91-461
		US-PATENT-CLASS-73-49.3			US-PATENT-CLASS-328-120			US-PATENT-3,563,135
		US-PATENT-3,559,460			US-PATENT-CLASS-330-30	N71-27169*	c 15	NASA-CASE-LAR-10106-1
N71-26673*	c 15	NASA-CASE-XAC-09489-1			US-PATENT-3,569,744			US-PATENT-APPL-SN-810575
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N71-28935*	c 14	NASA-CASE-LAR-10686			US-PATENT-CLASS-337-114	N71-29138*	c 08	NASA-CASE-ERC-10041
		US-PATENT-APPL-SN-280362			US-PATENT-CLASS-337-121			US-PATENT-APPL-SN-889478
		US-PATENT-CLASS-226-58			US-PATENT-3,579,168			US-PATENT-CLASS-307-234
		US-PATENT-3,298,582	N71-29040*	c 18	NASA-CASE-XLE-10910			US-PATENT-CLASS-307-265
N71-28936*	c 15	NASA-CASE-XMS-10993			US-PATENT-APPL-SN-751061			US-PATENT-CLASS-324-106
		US-PATENT-APPL-SN-660573			US-PATENT-CLASS-148-6			US-PATENT-CLASS-328-58
		US-PATENT-CLASS-244-1			US-PATENT-3,573,996			US-PATENT-CLASS-332-10
		US-PATENT-3,389,877	N71-29041*	c 14	NASA-CASE-XLA-10402			US-PATENT-CLASS-332-9R
N71-28937*	c 15	NASA-CASE-XNP-01855			US-PATENT-APPL-SN-762935			US-PATENT-3,579,146
		US-PATENT-APPL-SN-408435			US-PATENT-CLASS-356-76	N71-29139*	c 09	NASA-CASE-XLA-07788
		US-PATENT-CLASS-285-45			US-PATENT-3,574,462			US-PATENT-APPL-SN-874732
		US-PATENT-3,219,365	N71-29044*	c 03	NASA-CASE-XMS-02063			US-PATENT-CLASS-307-215
N71-28951*	c 15	NASA-CASE-XNP-02278			US-PATENT-APPL-SN-422096			US-PATENT-CLASS-307-247
		US-PATENT-APPL-SN-11853			US-PATENT-CLASS-136-86			US-PATENT-CLASS-307-265
		US-PATENT-CLASS-60-35.55			US-PATENT-3,382,105			US-PATENT-CLASS-307-273
		US-PATENT-3,132,479	N71-29046*	c 33	NASA-CASE-XHQ-03673			US-PATENT-CLASS-307-294
N71-28952*	c 15	NASA-CASE-XAC-00001			US-PATENT-APPL-SN-559055			US-PATENT-CLASS-328-207
		US-PATENT-APPL-SN-612568			US-PATENT-CLASS-165-86			US-PATENT-3,578,988
		US-PATENT-CLASS-318-31			US-PATENT-3,347,309	N71-29151*	c 33	NASA-CASE-XLE-00035
		US-PATENT-2,837,706	N71-29049*	c 23	NASA-CASE-XNP-06503			US-PATENT-APPL-SN-575291
N71-28958*	c 14	NASA-CASE-XNP-02792			US-PATENT-APPL-SN-370989			US-PATENT-CLASS-204-37
		US-PATENT-APPL-SN-262596			US-PATENT-CLASS-335-216			US-PATENT-2,926,123
		US-PATENT-CLASS-219-413			US-PATENT-3,273,094	N71-29152*	c 33	NASA-CASE-XLE-00027
		US-PATENT-3,197,616			NASA-CASE-HQN-00936			US-PATENT-APPL-SN-529594
N71-28959*	c 15	NASA-CASE-XNP-01848			US-PATENT-APPL-SN-862921			US-PATENT-CLASS-253-39.1
		US-PATENT-APPL-SN-359532			US-PATENT-CLASS-244-1			US-PATENT-2,956,772
		US-PATENT-CLASS-64-27			US-PATENT-3,396,920	N71-29153*	c 28	NASA-CASE-MFS-20831
		US-PATENT-3,236,066	N71-29051*	c 33	NASA-CASE-XMF-04208			US-PATENT-APPL-SN-238421
N71-28960*	c 10	NASA-CASE-XNP-00745			US-PATENT-APPL-SN-428887			US-PATENT-CLASS-60-35.54
		US-PATENT-APPL-SN-314570			US-PATENT-CLASS-73-190			US-PATENT-3,212,259
		US-PATENT-CLASS-328-67			US-PATENT-3,372,588	N71-29154*	c 28	NASA-CASE-XLE-00155
		US-PATENT-3,252,100	N71-29052*	c 33	NASA-CASE-MSC-12389			US-PATENT-APPL-SN-348600
N71-28965* #	c 07	NASA-CASE-GSC-10949-1			US-PATENT-APPL-SN-229286			US-PATENT-CLASS-253-77
		US-PATENT-APPL-SN-94369			US-PATENT-CLASS-165-47			US-PATENT-2,997,274
N71-28979*	c 07	NASA-CASE-HQN-00937			US-PATENT-3,212,564	N71-29155*	c 27	NASA-CASE-MSC-12390
		US-PATENT-APPL-SN-343760			NASA-CASE-HQN-00938			US-PATENT-APPL-SN-231520
		US-PATENT-CLASS-343-823	N71-29053*	c 33	US-PATENT-APPL-SN-300957			US-PATENT-CLASS-222-61
		US-PATENT-3,299,431			US-PATENT-CLASS-60-267			US-PATENT-3,286,882
N71-28980*	c 07	NASA-CASE-XLA-10772			US-PATENT-3,298,175	N71-29156*	c 26	NASA-CASE-XNP-01961
		US-PATENT-APPL-SN-887700			NASA-CASE-ERC-10011			US-PATENT-APPL-SN-442835
		US-PATENT-CLASS-343-708			US-PATENT-APPL-SN-802818			US-PATENT-CLASS-148-174
		US-PATENT-CLASS-343-784			US-PATENT-CLASS-333-81			US-PATENT-3,397,094
		US-PATENT-CLASS-343-872			US-PATENT-CLASS-350-1	N71-29184*	c 25	NASA-CASE-XLA-00327
		US-PATENT-3,579,242			US-PATENT-CLASS-350-286			US-PATENT-APPL-SN-199199
N71-28991*	c 14	NASA-CASE-XLA-06713			US-PATENT-3,574,438			US-PATENT-CLASS-315-111
		US-PATENT-APPL-SN-863913			NASA-CASE-XNP-08907			US-PATENT-3,238,413
		US-PATENT-CLASS-324-5	N71-29123*	c 23	US-PATENT-APPL-SN-824042	N71-30026*	c 14	NASA-CASE-MFS-20096
		US-PATENT-CLASS-324-73			US-PATENT-CLASS-350-102			US-PATENT-APPL-SN-435433
		US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-350-288			US-PATENT-CLASS-73-432
		US-PATENT-3,579,103			US-PATENT-CLASS-350-310			US-PATENT-3,396,584
N71-28992*	c 14	NASA-CASE-ERC-10150			US-PATENT-3,574,448	N71-30027*	c 23	NASA-CASE-GSC-10700
		US-PATENT-APPL-SN-822519			NASA-CASE-NPO-11087			US-PATENT-APPL-SN-311387
		US-PATENT-CLASS-250-41.95			US-PATENT-APPL-SN-840359			US-PATENT-CLASS-350-2
		US-PATENT-CLASS-73-40.7			US-PATENT-CLASS-331-94.5			US-PATENT-3,394,975
		US-PATENT-3,578,758			US-PATENT-CLASS-356-153	N71-30028*	c 15	NASA-CASE-MFS-20830
N71-28993*	c 14	NASA-CASE-MFS-20044			US-PATENT-3,574,467			US-PATENT-APPL-SN-286620
		US-PATENT-APPL-SN-838630	N71-29128*	c 02	NASA-CASE-XAC-00048			US-PATENT-3,262,395
		US-PATENT-CLASS-250-219			US-PATENT-APPL-SN-765264	N71-30265*	c 14	NASA-CASE-HQN-10780
		US-PATENT-CLASS-356-209			US-PATENT-CLASS-121-38			US-PATENT-APPL-SN-247136
		US-PATENT-3,574,470			US-PATENT-2,898,889			US-PATENT-CLASS-73-497

N71-30292*	c 23	US-PATENT-3,270,565	N71-34044* #	c 03	US-PATENT-CLASS-329-145	N72-11365*	c 14	US-PATENT-CLASS-73-95
		NASA-CASE-HQN-10781			US-PATENT-3,588,705			US-PATENT-3,592,545
		US-PATENT-APPL-SN-86018			NASA-CASE-NPO-11190			NASA-CASE-MFS-20485
N71-33108*	c 07	US-PATENT-3,239,660	N71-34212* #	c 09	US-PATENT-APPL-SN-115944	N72-11385*	c 15	US-PATENT-APPL-SN-22320
		NASA-CASE-KSC-10164			NASA-CASE-MFS-20935			US-PATENT-CLASS-250-43.5FC
		US-PATENT-APPL-SN-782955			US-PATENT-APPL-SN-136007			US-PATENT-CLASS-73-194F
N71-33109*	c 09	US-PATENT-CLASS-179-1R	N71-34389* #	c 14	NASA-CASE-HQN-10683	N72-11385*	c 15	US-PATENT-3,599,489
		US-PATENT-CLASS-179-1VC			US-PATENT-APPL-SN-146217			NASA-CASE-MFS-18495
		US-PATENT-3,588,359			NASA-CASE-HQN-10537-1			US-PATENT-APPL-SN-38814
N71-33110*	c 08	NASA-CASE-ARC-10101-1	N72-10138* #	c 06	US-PATENT-APPL-SN-112366	N72-11386*	c 15	US-PATENT-CLASS-24-211N
		US-PATENT-APPL-SN-793823			NASA-CASE-GSC-11095-1			US-PATENT-CLASS-85-5B
		US-PATENT-CLASS-307-251			US-PATENT-APPL-SN-147940			US-PATENT-3,596,554
N71-33110*	c 08	US-PATENT-CLASS-307-261	N72-11018* #	c 02	NASA-CASE-LAR-10557	N72-11386*	c 15	NASA-CASE-MFS-20249
		US-PATENT-CLASS-321-47			US-PATENT-APPL-SN-853746			US-PATENT-APPL-SN-794530
		US-PATENT-3,588,671			US-PATENT-CLASS-416-115			US-PATENT-CLASS-248-183
N71-33129*	c 10	NASA-CASE-GSC-10186	N72-11062* #	c 03	US-PATENT-CLASS-416-121	N72-11387*	c 15	US-PATENT-CLASS-248-278
		US-PATENT-APPL-SN-713188			US-PATENT-CLASS-416-127			US-PATENT-CLASS-248-487
		US-PATENT-CLASS-235-164			US-PATENT-CLASS-416-130			US-PATENT-CLASS-33-72
N71-33129*	c 10	US-PATENT-CLASS-235-175	N72-11084* #	c 05	US-PATENT-CLASS-416-149	N72-11388*	c 15	US-PATENT-CLASS-350-285
		US-PATENT-3,588,483			US-PATENT-CLASS-416-200			US-PATENT-CLASS-350-287
		NASA-CASE-GSC-10667-1			US-PATENT-3,592,559			US-PATENT-3,596,863
N71-33160*	c 31	US-PATENT-APPL-SN-749548	N72-11084* #	c 05	NASA-CASE-XGS-04047-2	N72-11387*	c 15	NASA-CASE-XMF-09902
		US-PATENT-CLASS-330-11			US-PATENT-APPL-SN-843251			US-PATENT-APPL-SN-769665
		US-PATENT-CLASS-330-16			US-PATENT-CLASS-136-206			US-PATENT-CLASS-75-20F
N71-33160*	c 31	US-PATENT-CLASS-330-24	N72-11084* #	c 05	US-PATENT-3,597,281	N72-11388*	c 15	US-PATENT-3,592,628
		US-PATENT-3,585,514			NASA-CASE-NPO-10677			NASA-CASE-MFS-20423
		NASA-CASE-XLA-04063			US-PATENT-APPL-SN-868530			US-PATENT-APPL-SN-865298
N71-33229*	c 23	US-PATENT-APPL-SN-802948	N72-11085* #	c 05	US-PATENT-CLASS-62-467	N72-11389*	c 15	US-PATENT-CLASS-212-134
		US-PATENT-CLASS-179-1			US-PATENT-CLASS-62-56			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-244-1			US-PATENT-3,599,443			US-PATENT-3,600,046
N71-33229*	c 23	US-PATENT-CLASS-244-83	N72-11085* #	c 05	NASA-CASE-MSC-13140	N72-11389*	c 15	NASA-CASE-XLA-05056
		US-PATENT-3,586,261			US-PATENT-APPL-SN-796358			US-PATENT-APPL-SN-596733
		NASA-CASE-NPO-10468			US-PATENT-CLASS-285-410			US-PATENT-CLASS-210-445
N71-33229*	c 23	US-PATENT-APPL-SN-787846	N72-11148* #	c 07	US-PATENT-CLASS-297-232	N72-11390*	c 15	US-PATENT-3,592,768
		US-PATENT-CLASS-350-310			US-PATENT-CLASS-297-68			NASA-CASE-MFS-18100
		US-PATENT-CLASS-350-55			US-PATENT-CLASS-5-69			US-PATENT-APPL-SN-784055
N71-33407*	c 10	US-PATENT-3,588,220	N72-11148* #	c 07	US-PATENT-3,592,505	N72-11391*	c 15	US-PATENT-CLASS-15-143
		NASA-CASE-NPO-10342			NASA-CASE-NPO-10301			US-PATENT-CLASS-15-210
		US-PATENT-APPL-SN-704446			US-PATENT-APPL-SN-848810			US-PATENT-3,591,885
N71-33407*	c 10	US-PATENT-CLASS-178-69.5	N72-11149* #	c 07	US-PATENT-CLASS-343-771	N72-11391*	c 15	NASA-CASE-NPO-11012
		US-PATENT-CLASS-179-15BS			US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-845807
		US-PATENT-CLASS-340-347DD			US-PATENT-3,599,216			US-PATENT-CLASS-248-18
N71-33408*	c 17	US-PATENT-3,588,883	N72-11149* #	c 07	NASA-CASE-GSC-10390-1	N72-11392*	c 15	US-PATENT-CLASS-248-20
		NASA-CASE-LEW-10327			US-PATENT-APPL-SN-749121			US-PATENT-CLASS-248-20
		US-PATENT-APPL-SN-772006			US-PATENT-CLASS-325-39			US-PATENT-3,592,422
N71-33408*	c 17	US-PATENT-CLASS-148-6.3	N72-11149* #	c 07	US-PATENT-CLASS-325-4	N72-11392*	c 15	NASA-CASE-MFS-20299
		US-PATENT-3,591,426			US-PATENT-CLASS-325-58			US-PATENT-APPL-SN-889437
		NASA-CASE-ARC-10050			US-PATENT-CLASS-325-58			US-PATENT-CLASS-156-320
N71-33409*	c 03	US-PATENT-APPL-SN-797219	N72-11150* #	c 07	US-PATENT-CLASS-343-179	N72-11392*	c 15	US-PATENT-CLASS-156-66
		US-PATENT-CLASS-136-89			US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-219-221
		US-PATENT-3,591,420			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-219-243
N71-33410*	c 16	NASA-CASE-NPO-10417	N72-11150* #	c 07	US-PATENT-3,593,138	N72-11392*	c 15	US-PATENT-3,593,001
		US-PATENT-APPL-SN-753974			NASA-CASE-NPO-11064			NASA-CASE-GSC-11133-1
		US-PATENT-CLASS-331-94.5			US-PATENT-APPL-SN-880248			US-PATENT-APPL-SN-121328
N71-33410*	c 16	US-PATENT-CLASS-352-84	N72-11150* #	c 07	US-PATENT-CLASS-331-10	N72-11392*	c 15	NASA-CASE-MFS-20095
		US-PATENT-CLASS-95-11			US-PATENT-CLASS-331-34			US-PATENT-APPL-SN-855004
		US-PATENT-3,587,424			US-PATENT-CLASS-331-66			US-PATENT-CLASS-250-49.5B
N71-33518*	c 15	NASA-CASE-XLA-03661	N72-11171* #	c 08	US-PATENT-CLASS-331-7	N72-11393*	c 15	US-PATENT-CLASS-250-49.5TE
		US-PATENT-APPL-SN-751266			US-PATENT-3,593,180			US-PATENT-CLASS-250-51
		US-PATENT-CLASS-408-137			NASA-CASE-NPO-10769			US-PATENT-CLASS-250-52
N71-33518*	c 15	US-PATENT-CLASS-90-11	N72-11171* #	c 08	US-PATENT-APPL-SN-813494	N72-11393*	c 15	US-PATENT-3,593,024
		US-PATENT-3,585,882			US-PATENT-CLASS-179-15.55R			NASA-CASE-MFS-20619
		NASA-CASE-ERC-10100			US-PATENT-3,598,921			US-PATENT-APPL-SN-18982
N71-33519*	c 09	US-PATENT-APPL-SN-766697	N72-11172* #	c 08	NASA-CASE-GSC-10880-1	N72-11708*	c 28	US-PATENT-APPL-SN-18982
		US-PATENT-CLASS-313-109.5			US-PATENT-APPL-SN-831118			US-PATENT-CLASS-139-425R
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-235-61NV			US-PATENT-CLASS-239-265.19
N71-33519*	c 09	US-PATENT-CLASS-315-108	N72-11172* #	c 08	US-PATENT-CLASS-33-15A	N72-11709*	c 28	US-PATENT-CLASS-239-265.43
		US-PATENT-CLASS-315-111			US-PATENT-CLASS-33-204C			US-PATENT-CLASS-60-271
		US-PATENT-CLASS-340-324			US-PATENT-3,599,335			US-PATENT-3,596,465
N71-33519*	c 09	US-PATENT-CLASS-340-336	N72-11224* #	c 09	NASA-CASE-GSC-10614-1	N72-11709*	c 28	NASA-CASE-NPO-10737
		US-PATENT-3,588,874			US-PATENT-APPL-SN-822534			US-PATENT-APPL-SN-760114
		NASA-CASE-NPO-11031			US-PATENT-CLASS-179-100-2CA			US-PATENT-CLASS-60-202
N71-33606*	c 07	US-PATENT-APPL-SN-864097	N72-11224* #	c 09	US-PATENT-CLASS-179-100-2MD	N72-12080*	c 07	US-PATENT-CLASS-60-39-48
		US-PATENT-CLASS-333-21A			US-PATENT-CLASS-179-100-2MD			US-PATENT-3,591,967
		US-PATENT-CLASS-333-6			US-PATENT-CLASS-274-4R			NASA-CASE-MFS-20619
N71-33612*	c 11	US-PATENT-CLASS-333-7	N72-11225* #	c 09	US-PATENT-3,592,478	N72-12081*	c 07	US-PATENT-APPL-SN-880885
		US-PATENT-3,588,751			NASA-CASE-KSC-10162			US-PATENT-CLASS-325-4
		NASA-CASE-XLA-09480			US-PATENT-APPL-SN-817481			US-PATENT-CLASS-343-6.5R
N71-33612*	c 11	US-PATENT-APPL-SN-874435	N72-11256* #	c 10	US-PATENT-CLASS-324-102	N72-12081*	c 07	US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-73-147			US-PATENT-CLASS-324-119			US-PATENT-3,594,790
		US-PATENT-3,587,306			US-PATENT-CLASS-324-123R			NASA-CASE-GSC-10185-1
N71-33613*	c 07	NASA-CASE-NPO-10700	N72-11256* #	c 10	US-PATENT-3,593,132	N72-12136*	c 09	US-PATENT-APPL-SN-733039
		US-PATENT-APPL-SN-840308			NASA-CASE-ARC-10042-2			US-PATENT-CLASS-178-DIG.12
		US-PATENT-CLASS-318-227			US-PATENT-APPL-SN-33159			US-PATENT-CLASS-178-6
N71-33613*	c 07	US-PATENT-CLASS-318-230	N72-11256* #	c 10	US-PATENT-CLASS-330-107	N72-12136*	c 09	US-PATENT-CLASS-178-7.3
		US-PATENT-3,588,648			US-PATENT-CLASS-330-109			US-PATENT-CLASS-330-109
		NASA-CASE-MSC-12165-1			US-PATENT-3,593,175			US-PATENT-CLASS-325-13
N71-33696*	c 07	US-PATENT-APPL-SN-875849	N72-11363* #	c 14	NASA-CASE-MSC-11847-1	N72-12136*	c 09	US-PATENT-3,588,331
		US-PATENT-CLASS-325-347			US-PATENT-APPL-SN-8497			NASA-CASE-XER-09521
		US-PATENT-CLASS-325-348			US-PATENT-CLASS-73-149			US-PATENT-APPL-SN-771530
N71-33696*	c 07	US-PATENT-CLASS-325-473	N72-11364* #	c 14	US-PATENT-CLASS-73-290B	N72-12136*	c 09	US-PATENT-CLASS-136-202
		US-PATENT-CLASS-325-478			US-PATENT-3,596,510			US-PATENT-CLASS-136-206
		US-PATENT-CLASS-325-480			NASA-CASE-NPO-10778			US-PATENT-CLASS-136-227
N71-33696*	c 07	US-PATENT-CLASS-325-482	N72-11364* #	c 14	US-PATENT-APPL-SN-865909	N72-12408*	c 15	US-PATENT-CLASS-343-DIG.3
		US-PATENT-CLASS-328-164			US-PATENT-CLASS-250-235			US-PATENT-CLASS-343-720
		US-PATENT-CLASS-328-165			US-PATENT-CLASS-33-125			US-PATENT-CLASS-343-840
N71-33696*	c 07		N72-11364* #	c 14	US-PATENT-CLASS-356-167	N72-12408*	c 15	US-PATENT-3,594,803
					US-PATENT-CLASS-356-32			NASA-CASE-XLA-05066
					US-PATENT-CLASS-356-32			

		US-PATENT-APPL-SN-784544			US-PATENT-APPL-SN-887698	N72-17451*	c 15	NASA-CASE-WLP-10002
		US-PATENT-CLASS-140-105			US-PATENT-CLASS-128-2.1A			US-PATENT-APPL-SN-47062
		US-PATENT-CLASS-72-307			US-PATENT-CLASS-307-252F			US-PATENT-CLASS-180-125
		US-PATENT-3,584,660			US-PATENT-CLASS-307-252J			US-PATENT-CLASS-180-127
N72-12409*	c 15	NASA-CASE-NPO-10637			US-PATENT-CLASS-325-492			US-PATENT-CLASS-308-DIG.1
		US-PATENT-APPL-SN-851298			US-PATENT-CLASS-340-177			US-PATENT-CLASS-308-5
		US-PATENT-CLASS-236-68			US-PATENT-3,603,946			US-PATENT-CLASS-308-9
		US-PATENT-CLASS-337-354	N72-17154*	c 09	NASA-CASE-ERC-10139	N72-17452*	c 15	US-PATENT-3,610,365
		US-PATENT-CLASS-337-359			US-PATENT-APPL-SN-889555			NASA-CASE-XLA-10322
		US-PATENT-CLASS-337-75			US-PATENT-CLASS-321-10			US-PATENT-APPL-SN-887699
		US-PATENT-CLASS-60-23			US-PATENT-CLASS-336-178			US-PATENT-CLASS-73-88.5R
		US-PATENT-3,591,960			US-PATENT-3,603,864			US-PATENT-3,608,365
N72-12440*	c 16	NASA-CASE-MFS-20180	N72-17155*	c 09	NASA-CASE-NPO-11023	N72-17453*	c 15	NASA-CASE-NPO-11177
		US-PATENT-APPL-SN-863276			US-PATENT-APPL-SN-865274			US-PATENT-APPL-SN-20960
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N72-22485*	c 15	NASA-CASE-MSC-13512-1 US-PATENT-APPL-SN-73932 US-PATENT-CLASS-74-501R US-PATENT-3,625,084	N72-23085*	c 05	NASA-CASE-LAR-10102-1 US-PATENT-APPL-SN-13266 US-PATENT-CLASS-224-25A US-PATENT-3,649,921	N72-25021*	c 03	NASA-CASE-NPO-11118 US-PATENT-APPL-SN-8650 US-PATENT-CLASS-214-90R US-PATENT-3,666,120
N72-22486*	c 15	NASA-CASE-KSC-10031 US-PATENT-APPL-SN-98773 US-PATENT-CLASS-220-5R US-PATENT-CLASS-317-101DH US-PATENT-CLASS-317-117 US-PATENT-CLASS-317-120 US-PATENT-3,639,809	N72-23171*	c 09	NASA-CASE-GSC-10221-1 US-PATENT-APPL-SN-779025 US-PATENT-CLASS-307-252N US-PATENT-CLASS-307-252R US-PATENT-CLASS-307-259 US-PATENT-CLASS-307-305 US-PATENT-3,621,294	N72-25119*	c 05	NASA-CASE-MSC-12397-1 US-PATENT-APPL-SN-785613 US-PATENT-CLASS-2-115 US-PATENT-CLASS-2-2.1 US-PATENT-3,660,851
N72-22487*	c 15	NASA-CASE-GSC-10303 US-PATENT-APPL-SN-802813 US-PATENT-CLASS-29-473.1 US-PATENT-3,619,896	N72-23172*	c 09	NASA-CASE-LAR-10320-1 US-PATENT-APPL-SN-18427 US-PATENT-CLASS-324-20R US-PATENT-3,649,907	N72-25120*	c 05	NASA-CASE-MSC-90153-2 US-PATENT-APPL-SN-844225 US-PATENT-CLASS-106-209 US-PATENT-CLASS-128-2.1 US-PATENT-CLASS-128-417 US-PATENT-CLASS-252-514 US-PATENT-CLASS-264-104 US-PATENT-3,665,064
N72-22488*	c 15	NASA-CASE-MSC-11849-1 US-PATENT-APPL-SN-6617 US-PATENT-CLASS-85-1 US-PATENT-3,623,394	N72-23173*	c 09	NASA-CASE-ERC-10267 US-PATENT-APPL-SN-41348 US-PATENT-CLASS-235-197 US-PATENT-CLASS-307-229 US-PATENT-CLASS-328-145 US-PATENT-3,648,043	N72-25121*	c 05	NASA-CASE-FRC-10029-2 US-PATENT-APPL-SN-78704 US-PATENT-CLASS-156-264 US-PATENT-CLASS-156-308 US-PATENT-CLASS-29-25.14 US-PATENT-CLASS-29-25.18 US-PATENT-CLASS-29-482 US-PATENT-CLASS-29-630A US-PATENT-3,662,441
N72-22489*	c 15	NASA-CASE-GSC-10518-1 US-PATENT-APPL-SN-789045 US-PATENT-CLASS-417-152 US-PATENT-CLASS-55-446 US-PATENT-CLASS-55-464 US-PATENT-3,623,828	N72-23215*	c 11	NASA-CASE-MFS-20710 US-PATENT-APPL-SN-114848 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-31 US-PATENT-3,647,924	N72-25122*	c 05	NASA-CASE-MSC-13609-1 US-PATENT-APPL-SN-94347 US-PATENT-CLASS-128-2N US-PATENT-3,662,744
N72-22490*	c 15	NASA-CASE-LEW-10856-1 US-PATENT-APPL-SN-3417 US-PATENT-CLASS-308-195 US-PATENT-3,620,585	N72-23457*	c 14	NASA-CASE-MSC-12297 US-PATENT-APPL-SN-792623 US-PATENT-CLASS-55-493 US-PATENT-CLASS-55-498 US-PATENT-CLASS-55-502 US-PATENT-CLASS-55-521 US-PATENT-3,650,095	N72-25146*	c 06	NASA-CASE-NPO-11322 US-PATENT-APPL-SN-87550 US-PATENT-CLASS-250-43.5R US-PATENT-CLASS-73-23.1 US-PATENT-3,666,942
N72-22491*	c 15	NASA-CASE-GSC-10913 US-PATENT-APPL-SN-889558 US-PATENT-CLASS-219-158 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-228-57 US-PATENT-CLASS-29-628 US-PATENT-3,621,194	N72-23497*	c 15	NASA-CASE-KSC-10242 US-PATENT-APPL-SN-73834 US-PATENT-CLASS-219-109 US-PATENT-CLASS-219-234 US-PATENT-CLASS-219-85 US-PATENT-CLASS-324-65R US-PATENT-3,621,193	N72-25147*	c 06	NASA-CASE-ARC-10325 US-PATENT-APPL-SN-63610 US-PATENT-CLASS-260-2.5FP US-PATENT-3,663,464
N72-22492*	c 15	NASA-CASE-MFS-20482 US-PATENT-APPL-SN-6610 US-PATENT-CLASS-29-472.9 US-PATENT-CLASS-29-473.1 US-PATENT-3,602,979	N72-23581*	c 18	NASA-CASE-GSC-10361-1 US-PATENT-APPL-SN-700040 US-PATENT-CLASS-106-84 US-PATENT-3,620,784	N72-25148*	c 06	NASA-CASE-MFS-13994-2 US-PATENT-APPL-SN-870689 US-PATENT-CLASS-260-348SC US-PATENT-3,660,434
N72-22520* #	c 16	NASA-CASE-LAR-10815-1 US-PATENT-APPL-SN-233587	N72-23695*	c 23	NASA-CASE-HQN-10541-3 US-PATENT-APPL-SN-822089 US-PATENT-CLASS-350-171 US-PATENT-3,606,522	N72-25149*	c 06	NASA-CASE-GSC-10565-1 US-PATENT-APPL-SN-822039 US-PATENT-CLASS-195-103.5R US-PATENT-CLASS-195-28N US-PATENT-CLASS-260-211.5 US-PATENT-3,660,240
N72-22530*	c 17	NASA-CASE-XLE-06461 US-PATENT-APPL-SN-853855 US-PATENT-CLASS-75-5B US-PATENT-3,623,861	N72-23809*	c 28	NASA-CASE-XNP-09461 US-PATENT-APPL-SN-670829 US-PATENT-CLASS-239-418 US-PATENT-CLASS-239-433 US-PATENT-CLASS-239-543 US-PATENT-3,650,474	N72-25150*	c 06	NASA-CASE-XLE-06774-2 US-PATENT-APPL-SN-5114 US-PATENT-CLASS-117-132 US-PATENT-CLASS-117-161 US-PATENT-CLASS-260-2.5 US-PATENT-CLASS-260-92.1 US-PATENT-3,666,741
N72-22535*	c 17	NASA-CASE-LEW-10874-1 US-PATENT-APPL-SN-68024 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-3,620,718	N72-23810*	c 28	NASA-CASE-NPO-11458 US-PATENT-APPL-SN-36926 US-PATENT-CLASS-60-266 US-PATENT-CLASS-60-271 US-PATENT-3,648,461	N72-25151*	c 06	NASA-CASE-MFS-20979 US-PATENT-APPL-SN-100774 US-PATENT-CLASS-260-18S US-PATENT-CLASS-260-448.2D US-PATENT-CLASS-260-46.5E US-PATENT-CLASS-260-46.5G US-PATENT-CLASS-260-46.5P US-PATENT-3,666,718
N72-22566*	c 18	NASA-CASE-MFS-20011 US-PATENT-APPL-SN-813338 US-PATENT-CLASS-106-286 US-PATENT-CLASS-106-288B US-PATENT-CLASS-106-84 US-PATENT-3,620,791	N72-24037*	c 03	NASA-CASE-GSC-11514-1 US-PATENT-APPL-SN-820453 US-PATENT-CLASS-117-201 US-PATENT-CLASS-136-89 US-PATENT-3,653,970	N72-25152*	c 06	NASA-CASE-NPO-10863-2 US-PATENT-APPL-SN-145026 US-PATENT-CLASS-260-92.1 US-PATENT-3,663,521
N72-22567*	c 18	NASA-CASE-NPO-11091 US-PATENT-APPL-SN-860781 US-PATENT-CLASS-260-2.1E US-PATENT-3,629,161	N72-24477*	c 14	NASA-CASE-ARC-10138-1 US-PATENT-APPL-SN-774733 US-PATENT-CLASS-250-83.3H US-PATENT-CLASS-317-247 US-PATENT-CLASS-324-61R US-PATENT-CLASS-73-355R US-PATENT-3,657,644	N72-25170*	c 07	NASA-CASE-LAR-10513-1 US-PATENT-APPL-SN-64723 US-PATENT-CLASS-333-7 US-PATENT-CLASS-333-81R US-PATENT-CLASS-333-98P US-PATENT-CLASS-333-98R US-PATENT-CLASS-333-98S US-PATENT-3,649,935
N72-22619*	c 21	NASA-CASE-ARC-10179-1 US-PATENT-APPL-SN-835058 US-PATENT-CLASS-244-114 US-PATENT-CLASS-340-26 US-PATENT-3,624,598	N72-24522*	c 15	NASA-CASE-NPO-11036 US-PATENT-APPL-SN-41346 US-PATENT-CLASS-264-92 US-PATENT-3,658,974	N72-25171*	c 07	NASA-CASE-MFS-21042
N72-22673*	c 23	NASA-CASE-XER-07896-2 US-PATENT-APPL-SN-36819 US-PATENT-CLASS-350-310 US-PATENT-3,620,606	N72-24753*	c 25	NASA-CASE-XNP-04167-2 US-PATENT-APPL-SN-866442 US-PATENT-CLASS-313-186 US-PATENT-CLASS-313-212			
N72-22769*	c 28	NASA-CASE-ARC-10106-1 US-PATENT-APPL-SN-812998 US-PATENT-CLASS-244-3.22 US-PATENT-3,612,442						
N72-22770*	c 28	NASA-CASE-LEW-10770-1 US-PATENT-APPL-SN-880246 US-PATENT-CLASS-60-202 US-PATENT-3,613,370						
N72-22771*	c 28	NASA-CASE-LEW-10835-1 US-PATENT-APPL-SN-67815 US-PATENT-CLASS-60-202 US-PATENT-3,620,018						

		US-PATENT-APPL-SN-86417			US-PATENT-CLASS-321-18			US-PATENT-CLASS-250-209
		US-PATENT-CLASS-102-34.4			US-PATENT-CLASS-321-19			US-PATENT-CLASS-250-226
		US-PATENT-CLASS-325-114			US-PATENT-CLASS-321-2			US-PATENT-CLASS-250-83.3UV
		US-PATENT-CLASS-325-4			US-PATENT-CLASS-321-45ER			US-PATENT-CLASS-350-203
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-321-45R			US-PATENT-3,657,549
		US-PATENT-3,667,044			US-PATENT-3,663,940	N72-25410*	c 14	NASA-CASE-ERC-10292
N72-25172*	c 07	NASA-CASE-NPO-11358	N72-25253*	c 09	NASA-CASE-GSC-11126-1			US-PATENT-APPL-SN-45519
		US-PATENT-APPL-SN-116786			US-PATENT-APPL-SN-98640			US-PATENT-CLASS-350-160R
		US-PATENT-CLASS-179-15BV			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-515
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-321-47			US-PATENT-CLASS-73-521
		US-PATENT-3,665,417			US-PATENT-CLASS-331-113A			US-PATENT-3,657,928
N72-25173*	c 07	NASA-CASE-ERC-10324	N72-25254*	c 09	US-PATENT-3,663,941	N72-25411*	c 14	NASA-CASE-MSC-15626-1
		US-PATENT-APPL-SN-54270			NASA-CASE-NPO-10760			US-PATENT-APPL-SN-94374
		US-PATENT-CLASS-178-69.5			US-PATENT-APPL-SN-129071			US-PATENT-CLASS-116-114AH
		US-PATENT-CLASS-325-141			US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-12
		US-PATENT-CLASS-325-302			US-PATENT-CLASS-321-45R			US-PATENT-CLASS-73-492
		US-PATENT-CLASS-325-325			US-PATENT-CLASS-331-113A			US-PATENT-3,656,352
		US-PATENT-CLASS-325-38			US-PATENT-3,663,944	N72-25412*	c 14	NASA-CASE-MFS-15063
		US-PATENT-CLASS-325-51	N72-25255*	c 09	NASA-CASE-LAR-10620-1			US-PATENT-APPL-SN-51477
		US-PATENT-CLASS-325-55			US-PATENT-APPL-SN-125979			US-PATENT-CLASS-178-DIG.8
		US-PATENT-CLASS-325-58			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-6.8
		US-PATENT-CLASS-325-64			US-PATENT-CLASS-310-15			US-PATENT-CLASS-340-227R
		US-PATENT-CLASS-340-167			US-PATENT-3,663,843			US-PATENT-3,659,043
		US-PATENT-3,665,313	N72-25256*	c 09	NASA-CASE-XLA-02609	N72-25413*	c 14	NASA-CASE-GSC-10879-1
N72-25174*	c 07	NASA-CASE-NPO-11264			US-PATENT-APPL-SN-41347			US-PATENT-APPL-SN-889420
		US-PATENT-APPL-SN-36531			US-PATENT-CLASS-333-79			US-PATENT-CLASS-195-127
		US-PATENT-CLASS-343-762			US-PATENT-CLASS-339-143R			US-PATENT-3,666,631
		US-PATENT-CLASS-343-777			US-PATENT-CLASS-339-147R	N72-25414*	c 14	NASA-CASE-NPO-11311
		US-PATENT-CLASS-343-779			US-PATENT-3,663,929			US-PATENT-APPL-SN-57252
		US-PATENT-CLASS-343-786	N72-25257*	c 09	NASA-CASE-MSC-12395			US-PATENT-CLASS-178-7.92
		US-PATENT-CLASS-343-853			US-PATENT-APPL-SN-134573			US-PATENT-CLASS-350-175F5
		US-PATENT-3,665,481			US-PATENT-CLASS-307-233			US-PATENT-3,663,753
N72-25206*	c 08	NASA-CASE-KSC-10397			US-PATENT-CLASS-324-186	N72-25428* #	c 14	NASA-CASE-HQN-10756-1
		US-PATENT-APPL-SN-25488			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-236052
		US-PATENT-CLASS-235-154			US-PATENT-CLASS-328-136	N72-25447*	c 15	NASA-CASE-LEW-10489-1
		US-PATENT-CLASS-340-347DA			US-PATENT-CLASS-328-140			US-PATENT-APPL-SN-889682
		US-PATENT-3,648,275			US-PATENT-3,663,885			US-PATENT-CLASS-117-107
N72-25207*	c 08	NASA-CASE-NPO-11161	N72-25258*	c 09	NASA-CASE-LAR-10253-1			US-PATENT-CLASS-117-211
		US-PATENT-APPL-SN-889374			US-PATENT-APPL-SN-99175			US-PATENT-CLASS-117-217
		US-PATENT-CLASS-340-146.1			US-PATENT-CLASS-307-88.3			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-330-4.5			US-PATENT-CLASS-117-93.16D
		US-PATENT-3,648,256			US-PATENT-3,663,886			US-PATENT-CLASS-29-599
N72-25208*	c 08	NASA-CASE-NPO-11338	N72-25259*	c 09	NASA-CASE-GSC-10695-1	N72-25448*	c 15	NASA-CASE-LEW-10450-1
		US-PATENT-APPL-SN-89212			US-PATENT-APPL-SN-889422			US-PATENT-APPL-SN-880271
		US-PATENT-CLASS-178-50			US-PATENT-CLASS-117-200			US-PATENT-CLASS-75-0.5BB
		US-PATENT-CLASS-179-15BC			US-PATENT-CLASS-136-89			US-PATENT-CLASS-75-206
		US-PATENT-CLASS-179-15FD			US-PATENT-3,664,874			US-PATENT-CLASS-75-213
		US-PATENT-CLASS-325-62			NASA-CASE-NPO-11283			US-PATENT-3,649,242
		US-PATENT-CLASS-332-21	N72-25260*	c 09	US-PATENT-APPL-SN-118270	N72-25450*	c 15	NASA-CASE-NPO-11202
		US-PATENT-3,659,053			US-PATENT-CLASS-310-4			US-PATENT-APPL-SN-66004
N72-25209*	c 08	NASA-CASE-NPO-11194			US-PATENT-3,663,839			US-PATENT-CLASS-285-DIG.21
		US-PATENT-APPL-SN-63532			NASA-CASE-ERC-10224			US-PATENT-CLASS-285-3
		US-PATENT-CLASS-343-12R	N72-25261*	c 09	US-PATENT-APPL-SN-868775			US-PATENT-CLASS-285-316
		US-PATENT-CLASS-343-14			US-PATENT-CLASS-29-492			US-PATENT-CLASS-285-33
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-29-497			US-PATENT-CLASS-339-45M
		US-PATENT-3,659,292			US-PATENT-CLASS-29-498			US-PATENT-CLASS-339-91B
N72-25210*	c 08	NASA-CASE-NPO-10636			US-PATENT-CLASS-29-502			US-PATENT-3,656,781
		US-PATENT-APPL-SN-77221			US-PATENT-CLASS-29-589	N72-25451*	c 15	NASA-CASE-NPO-10606
		US-PATENT-CLASS-235-152			US-PATENT-CLASS-29-628			US-PATENT-APPL-SN-8636
		US-PATENT-CLASS-340-146.1AL			US-PATENT-3,665,589			US-PATENT-CLASS-251-360
		US-PATENT-3,662,337	N72-25262*	c 09	NASA-CASE-NPO-11078			US-PATENT-3,658,295
N72-25247*	c 09	NASA-CASE-LAR-10163-1			US-PATENT-APPL-SN-82280	N72-25452*	c 15	NASA-CASE-LEW-10965-1
		US-PATENT-APPL-SN-73310			US-PATENT-CLASS-307-103			US-PATENT-APPL-SN-876588
		US-PATENT-CLASS-343-708			US-PATENT-CLASS-307-83			US-PATENT-CLASS-117-124C
		US-PATENT-CLASS-343-771			US-PATENT-CLASS-323-48			US-PATENT-CLASS-117-152
		US-PATENT-CLASS-343-873			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-16R
		US-PATENT-3,653,052			US-PATENT-CLASS-323-82			US-PATENT-CLASS-117-37
N72-25248*	c 09	NASA-CASE-NPO-11342			US-PATENT-3,663,828			US-PATENT-CLASS-117-47R
		US-PATENT-APPL-SN-89209	N72-25284*	c 11	NASA-CASE-LAR-10507-1			US-PATENT-CLASS-117-62
		US-PATENT-CLASS-340-172.5			US-PATENT-APPL-SN-874177			US-PATENT-CLASS-117-93.3
		US-PATENT-CLASS-340-324A			US-PATENT-CLASS-195-127			US-PATENT-CLASS-204-157.18AG
		US-PATENT-3,648,250			US-PATENT-3,649,462			US-PATENT-CLASS-204-49
N72-25249*	c 09	NASA-CASE-GSC-10656-1	N72-25287*	c 11	NASA-CASE-LAR-10546-1			US-PATENT-CLASS-250-65F
		US-PATENT-APPL-SN-59969			US-PATENT-APPL-SN-32664			US-PATENT-CLASS-96-36.2
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-287-54A			US-PATENT-3,658,569
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-52-648			NASA-CASE-KSC-10513
		US-PATENT-CLASS-323-17			US-PATENT-CLASS-52-655	N72-25453*	c 15	US-PATENT-APPL-SN-61535
		US-PATENT-CLASS-323-22T			US-PATENT-3,665,670			US-PATENT-CLASS-187-1
		US-PATENT-3,621,372	N72-25288*	c 11	NASA-CASE-MFS-20434			US-PATENT-CLASS-187-20
N72-25250*	c 09	NASA-CASE-KSC-10565			US-PATENT-APPL-SN-55534			US-PATENT-CLASS-187-95
		US-PATENT-APPL-SN-98517			US-PATENT-CLASS-73-140			US-PATENT-CLASS-254-190
		US-PATENT-CLASS-315-135			US-PATENT-CLASS-73-161			US-PATENT-3,666,051
		US-PATENT-CLASS-315-349			US-PATENT-3,665,758	N72-25454*	c 15	NASA-CASE-MSC-12233-1
		US-PATENT-CLASS-330-2			NASA-CASE-NPO-11556			US-PATENT-APPL-SN-73422
		US-PATENT-CLASS-330-59			US-PATENT-APPL-SN-82648			US-PATENT-CLASS-52-169
		US-PATENT-CLASS-340-332			US-PATENT-CLASS-210-188			US-PATENT-CLASS-52-173
		US-PATENT-3,659,148			US-PATENT-CLASS-310-11			US-PATENT-CLASS-52-594
N72-25251*	c 09	NASA-CASE-ERC-10048			US-PATENT-3,648,083			US-PATENT-3,665,669
		US-PATENT-APPL-SN-10329	N72-25323*	c 13	NASA-CASE-NPO-11373	N72-25455*	c 15	NASA-CASE-NPO-11095
		US-PATENT-CLASS-307-261			US-PATENT-APPL-SN-81095			US-PATENT-APPL-SN-19585
		US-PATENT-CLASS-321-18			US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-239-424
		US-PATENT-CLASS-321-2			US-PATENT-CLASS-73-422GC			US-PATENT-CLASS-60-258
		US-PATENT-3,659,184			US-PATENT-CLASS-73-422TC			US-PATENT-CLASS-60-39.74A
N72-25252*	c 09	NASA-CASE-ERC-10268			US-PATENT-3,662,604			US-PATENT-3,662,547
		US-PATENT-APPL-SN-39342	N72-25409*	c 14	NASA-CASE-ERC-10174	N72-25456*	c 15	NASA-CASE-NPO-11222
		US-PATENT-CLASS-321-11			US-PATENT-APPL-SN-39344			

		US-PATENT-APPL-SN-59893		US-PATENT-CLASS-136-202		US-PATENT-APPL-SN-59968		
		US-PATENT-CLASS-310-68		US-PATENT-3,666,566		US-PATENT-CLASS-248-188.4		
		US-PATENT-CLASS-310-80	N72-26371*	c 15	NASA-CASE-NPO-10244	US-PATENT-3,669,393		
		US-PATENT-CLASS-310-83		US-PATENT-APPL-SN-43327	N72-27485*	NASA-CASE-XLA-09843		
N72-25457*	c 15	US-PATENT-3,660,704		US-PATENT-CLASS-308-2A		US-PATENT-APPL-SN-60876		
		NASA-CASE-ERC-10325		US-PATENT-CLASS-73-136R		US-PATENT-CLASS-83-522		
		US-PATENT-APPL-SN-43884		US-PATENT-3,664,185		US-PATENT-CLASS-83-562		
		US-PATENT-CLASS-324-158D	N72-27053*	c 03	NASA-CASE-GSC-10344-1	US-PATENT-CLASS-83-563		
		US-PATENT-CLASS-324-158T		US-PATENT-APPL-SN-785078		US-PATENT-CLASS-83-588		
		US-PATENT-3,665,307		US-PATENT-CLASS-136-89		US-PATENT-CLASS-83-8		
N72-25485*	c 16	NASA-CASE-ERC-10283		US-PATENT-3,672,999		US-PATENT-3,668,956		
		US-PATENT-APPL-SN-39185	N72-27102*	c 05	NASA-CASE-LAR-10365-1	N72-27728*	c 23	NASA-CASE-ARC-10160-1
		US-PATENT-CLASS-331-94.5		US-PATENT-APPL-SN-3151		US-PATENT-APPL-SN-867842		
		US-PATENT-CLASS-332-7.51		US-PATENT-CLASS-210-103		US-PATENT-CLASS-178-DIG.20		
		US-PATENT-3,659,225		US-PATENT-CLASS-210-104		US-PATENT-CLASS-178-6.5		
N72-25539*	c 18	NASA-CASE-LEW-10424-2-2		US-PATENT-CLASS-210-110		US-PATENT-CLASS-350-138		
		US-PATENT-APPL-SN-15222		US-PATENT-CLASS-210-137		US-PATENT-3,670,097		
		US-PATENT-CLASS-75-DIG.1		US-PATENT-3,670,890	N72-27784*	c 26	NASA-CASE-LAR-10836-1	
		US-PATENT-CLASS-75-208	N72-27103*	c 05	NASA-CASE-MS-13648		US-PATENT-APPL-SN-138227	
		US-PATENT-CLASS-75-211		US-PATENT-APPL-SN-87222		US-PATENT-CLASS-350-161		
		US-PATENT-CLASS-75-226		US-PATENT-CLASS-128-DIG.4		US-PATENT-3,671,105		
		US-PATENT-3,653,882		US-PATENT-CLASS-128-2.1E	N72-27959*	c 33	NASA-CASE-LAR-10800-1	
N72-25540*	c 18	NASA-CASE-ERC-10364		US-PATENT-CLASS-128-417		US-PATENT-APPL-SN-154094		
		US-PATENT-APPL-SN-55537		US-PATENT-3,669,110		US-PATENT-CLASS-73-35		
		US-PATENT-CLASS-161-127	N72-27144*	c 06	NASA-CASE-NPO-10768-2		US-PATENT-3,670,559	
		US-PATENT-CLASS-161-68		US-PATENT-APPL-SN-770398	N72-28025*	c 03	NASA-CASE-NPO-10633	
		US-PATENT-CLASS-161-7		US-PATENT-APPL-SN-99524		US-PATENT-APPL-SN-885521		
		US-PATENT-CLASS-52-DIG.10		US-PATENT-CLASS-260-535H		US-PATENT-CLASS-165-20		
		US-PATENT-CLASS-52-80		US-PATENT-CLASS-260-77.5AP		US-PATENT-CLASS-165-3		
		US-PATENT-3,663,347		US-PATENT-3,671,497		US-PATENT-CLASS-62-93		
N72-25541*	c 18	NASA-CASE-ERC-10363	N72-27151* #	c 06	NASA-CASE-NPO-10767-2		US-PATENT-3,675,712	
		US-PATENT-APPL-SN-57253		US-PATENT-APPL-SN-241061	N72-28225*	c 09	NASA-CASE-MFS-20757	
		US-PATENT-CLASS-161-127		US-PATENT-APPL-SN-110402		US-PATENT-APPL-SN-136006		
		US-PATENT-CLASS-161-68	N72-27226*	c 09	NASA-CASE-LEW-10330-1		US-PATENT-CLASS-339-176MF	
		US-PATENT-CLASS-161-7		US-PATENT-CLASS-336-198		US-PATENT-CLASS-339-218M		
		US-PATENT-CLASS-52-DIG.10		US-PATENT-CLASS-336-220		US-PATENT-CLASS-339-75MP		
		US-PATENT-CLASS-52-80		US-PATENT-CLASS-336-60		US-PATENT-CLASS-339-94M		
		US-PATENT-3,663,346		US-PATENT-3,648,209		US-PATENT-3,670,290		
N72-25595*	c 21	NASA-CASE-MS-13397-1	N72-27227*	c 09	NASA-CASE-KSC-10644	N72-28240*	c 10	NASA-CASE-ARC-10265-1
		US-PATENT-APPL-SN-59966		US-PATENT-APPL-SN-114849		US-PATENT-APPL-SN-864709		
		US-PATENT-CLASS-244-1SA		US-PATENT-CLASS-307-118		US-PATENT-CLASS-324-41		
		US-PATENT-CLASS-244-23A		US-PATENT-CLASS-307-92		US-PATENT-CLASS-340-258		
		US-PATENT-3,662,973		US-PATENT-CLASS-340-240		US-PATENT-3,676,772		
N72-25619*	c 23	NASA-CASE-NPO-10634	N72-27228*	c 09	US-PATENT-3,673,424	N72-28241*	c 10	NASA-CASE-GSC-10786-1
		US-PATENT-APPL-SN-112999		NASA-CASE-NPO-10542		US-PATENT-APPL-SN-773072		
		US-PATENT-CLASS-62-475		US-PATENT-APPL-SN-767741		US-PATENT-CLASS-330-29		
		US-PATENT-CLASS-62-6		US-PATENT-CLASS-310-4		US-PATENT-3,533,006		
		US-PATENT-CLASS-62-80		US-PATENT-3,673,440	N72-28436*	c 14	NASA-CASE-XLA-06683	
		US-PATENT-CLASS-62-85	N72-27246*	c 10	NASA-CASE-ERC-10015-2		US-PATENT-APPL-SN-10827	
		US-PATENT-3,656,313		US-PATENT-APPL-SN-763744		US-PATENT-CLASS-33-1SA		
N72-25679*	c 26	NASA-CASE-XER-07895		US-PATENT-APPL-SN-97343		US-PATENT-CLASS-33-75R		
		US-PATENT-APPL-SN-651627		US-PATENT-CLASS-313-309		US-PATENT-3,675,332		
		US-PATENT-CLASS-317-234J		US-PATENT-CLASS-313-336	N72-28437*	c 14	NASA-CASE-ERC-10081	
		US-PATENT-CLASS-317-235A		US-PATENT-CLASS-313-351		US-PATENT-APPL-SN-877990		
		US-PATENT-CLASS-317-235AJ		US-PATENT-CLASS-315-36		US-PATENT-CLASS-325-363		
		US-PATENT-CLASS-317-235R		US-PATENT-3,671,798		US-PATENT-CLASS-343-100ME		
		US-PATENT-CLASS-331-107G	N72-27262*	c 11	NASA-CASE-MFS-20620		US-PATENT-CLASS-343-112D	
		US-PATENT-3,667,010		US-PATENT-APPL-SN-154935		US-PATENT-CLASS-73-355		
N72-25680*	c 26	NASA-CASE-ERC-10275		US-PATENT-CLASS-73-117.1		US-PATENT-3,665,467		
		US-PATENT-APPL-SN-47061		US-PATENT-CLASS-73-432SD	N72-28438*	c 14	NASA-CASE-XLA-04980-2	
		US-PATENT-CLASS-324-92		US-PATENT-3,670,564		US-PATENT-APPL-SN-577548		
		US-PATENT-CLASS-324-96	N72-27408*	c 14	NASA-CASE-NPO-11147		US-PATENT-APPL-SN-763040	
		US-PATENT-CLASS-340-324R		US-PATENT-APPL-SN-63195		US-PATENT-CLASS-148-187		
		US-PATENT-CLASS-350-150		US-PATENT-CLASS-324-79R		US-PATENT-3,549,435		
		US-PATENT-CLASS-350-160R		US-PATENT-CLASS-328-189	N72-28495*	c 15	NASA-CASE-MFS-14405	
		US-PATENT-3,667,039		US-PATENT-CLASS-331-44		US-PATENT-APPL-SN-73283		
N72-25699*	c 27	NASA-CASE-NPO-12000		US-PATENT-3,670,241		US-PATENT-CLASS-214-1CM		
		US-PATENT-APPL-SN-74861	N72-27409*	c 14	NASA-CASE-NPO-11201		US-PATENT-CLASS-74-469	
		US-PATENT-CLASS-149-19		US-PATENT-APPL-SN-77220		US-PATENT-3,631,737		
		US-PATENT-CLASS-149-20		US-PATENT-CLASS-250-203R	N72-28496*	c 15	NASA-CASE-MFS-20433	
		US-PATENT-CLASS-149-36		US-PATENT-CLASS-250-225		US-PATENT-APPL-SN-114847		
		US-PATENT-CLASS-149-92		US-PATENT-CLASS-350-147		US-PATENT-CLASS-52-1		
		US-PATENT-3,658,608		US-PATENT-CLASS-356-141		US-PATENT-CLASS-52-573		
N72-25842*	c 31	NASA-CASE-MS-12372-1		US-PATENT-CLASS-356-152		US-PATENT-3,675,376		
		US-PATENT-APPL-SN-64391		US-PATENT-3,670,168	N72-28521*	c 16	NASA-CASE-NPO-11437	
		US-PATENT-CLASS-95-12.5	N72-27410*	c 14	NASA-CASE-XLE-05230		US-PATENT-APPL-SN-63144	
		US-PATENT-3,662,661		US-PATENT-APPL-SN-877717		US-PATENT-CLASS-330-4		
N72-25877*	c 32	NASA-CASE-LAR-10270-1		US-PATENT-CLASS-136-233		US-PATENT-CLASS-331-94		
		US-PATENT-APPL-SN-60881		US-PATENT-3,671,329		US-PATENT-3,676,787		
		US-PATENT-CLASS-73-100	N72-27411*	c 14	NASA-CASE-MS-12293-1	N72-28535*	c 17	NASA-CASE-XLE-06461-2
		US-PATENT-CLASS-73-15.6		US-PATENT-APPL-SN-59956		US-PATENT-APPL-SN-156778		
		US-PATENT-3,665,751		US-PATENT-CLASS-250-205		US-PATENT-APPL-SN-853855		
N72-25911*	c 33	NASA-CASE-LEW-10359		US-PATENT-CLASS-315-151		US-PATENT-CLASS-266-24		
		US-PATENT-APPL-SN-47063		US-PATENT-CLASS-315-156		US-PATENT-3,675,910		
		US-PATENT-CLASS-102-105		US-PATENT-CLASS-315-158	N72-28536*	c 17	NASA-CASE-XLE-03940-2	
		US-PATENT-CLASS-60-200A		US-PATENT-CLASS-315-297		US-PATENT-APPL-SN-539255		
		US-PATENT-CLASS-60-265		US-PATENT-CLASS-315-307		US-PATENT-APPL-SN-793657		
		US-PATENT-CLASS-60-267		US-PATENT-CLASS-315-310		US-PATENT-CLASS-29-182.5		
		US-PATENT-CLASS-62-467		US-PATENT-CLASS-315-311		US-PATENT-3,676,084		
		US-PATENT-3,656,317		US-PATENT-3,670,202	N72-28761*	c 26	NASA-CASE-NPO-11775	
N72-25913*	c 33	NASA-CASE-XMS-09690	N72-27412*	c 14	NASA-CASE-MFS-20523		US-PATENT-APPL-SN-162230	
		US-PATENT-APPL-SN-853641		US-PATENT-APPL-SN-77786		US-PATENT-CLASS-29-570		
		US-PATENT-CLASS-73-15R		US-PATENT-CLASS-73-103		US-PATENT-CLASS-317-230		
		US-PATENT-3,665,750		US-PATENT-CLASS-73-71.6		US-PATENT-CLASS-317-261		
N72-26031*	c 03	NASA-CASE-NPO-10753		US-PATENT-3,670,563		US-PATENT-3,676,754		
		US-PATENT-APPL-SN-844355	N72-27484*	c 15	NASA-CASE-NPO-10721	N72-28762*	c 26	NASA-CASE-LAR-10294-1

		US-PATENT-APPL-SN-796685				US-PATENT-3,690,291			US-PATENT-CLASS-325-480
		US-PATENT-CLASS-106-39	N72-32688*	c 25	.....	NASA-CASE-MFS-20589			US-PATENT-3,700,812
		US-PATENT-CLASS-106-46				US-PATENT-APPL-SN-103077	N73-12264*	c 11	.....
		US-PATENT-CLASS-117-212				US-PATENT-CLASS-313-231			NASA-CASE-LAR-10348-1
		US-PATENT-CLASS-117-217				US-PATENT-CLASS-315-111			US-PATENT-APPL-SN-70032
		US-PATENT-CLASS-29-25.42				US-PATENT-3,693,002			US-PATENT-CLASS-73-147
		US-PATENT-3,649,353	N72-33072*	c 04	.....	US-PATENT-3,693,002	N73-12265*	c 11	.....
N72-29172*	c 09	.....				NASA-CASE-ERC-10338			NASA-CASE-NPO-10890
		NASA-CASE-LAR-10511-1				US-PATENT-APPL-SN-50339			US-PATENT-APPL-SN-99903
		US-PATENT-APPL-SN-41345				US-PATENT-CLASS-23-109			US-PATENT-CLASS-137-559
		US-PATENT-CLASS-333-24R				US-PATENT-3,679,360			US-PATENT-CLASS-219-203
		US-PATENT-CLASS-333-98P	N72-33096*	c 05	.....	NASA-CASE-MSC-13540-1			US-PATENT-CLASS-219-522
		US-PATENT-CLASS-333-98R				US-PATENT-APPL-SN-68023			US-PATENT-CLASS-52-171
		US-PATENT-3,676,809				US-PATENT-CLASS-99-80PS			US-PATENT-CLASS-52-171
N72-29464*	c 14	.....				US-PATENT-3,692,533	N73-12444*	c 14	.....
		NASA-CASE-ARC-10017-1				US-PATENT-3,692,533			NASA-CASE-GSC-10903-1
		US-PATENT-APPL-SN-55536	N72-33146*	c 07	.....	NASA-CASE-MSC-12259-2			US-PATENT-APPL-SN-114846
		US-PATENT-CLASS-250-41.9D				US-PATENT-APPL-SN-61895			US-PATENT-CLASS-250-41.9G
		US-PATENT-CLASS-250-71.5R				US-PATENT-APPL-SN-853763			US-PATENT-CLASS-250-41.9S
		US-PATENT-CLASS-313-356				US-PATENT-CLASS-325-373			US-PATENT-CLASS-73-421.5
		US-PATENT-3,676,674				US-PATENT-3,694,753			US-PATENT-3,700,893
N72-29488*	c 15	.....	N72-33172*	c 08	.....	NASA-CASE-NPO-11630	N73-12445*	c 14	.....
		NASA-CASE-XLE-10326-2				US-PATENT-APPL-SN-143078			NASA-CASE-LAR-10728-1
		US-PATENT-APPL-SN-54540				US-PATENT-CLASS-179-15.55R			US-PATENT-APPL-SN-112998
		US-PATENT-APPL-SN-723465				US-PATENT-CLASS-317-235			US-PATENT-CLASS-250-83.3H
		US-PATENT-CLASS-277-25				US-PATENT-3,694,581			US-PATENT-CLASS-250-83.3R
		US-PATENT-CLASS-277-27	N72-33204*	c 09	.....	NASA-CASE-NPO-11129			US-PATENT-CLASS-250-83R
		US-PATENT-CLASS-277-74				US-PATENT-APPL-SN-883523			US-PATENT-3,700,897
		US-PATENT-3,675,935				US-PATENT-CLASS-307-262	N73-12446*	c 14	.....
N72-31140*	c 06	.....				US-PATENT-CLASS-307-295			NASA-CASE-NPO-11239
		NASA-CASE-MSC-13335-1				US-PATENT-CLASS-328-155			US-PATENT-APPL-SN-89211
		US-PATENT-APPL-SN-55806				US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-106
		US-PATENT-CLASS-55-16				US-PATENT-CLASS-328-24			US-PATENT-CLASS-356-114
		US-PATENT-CLASS-55-55				US-PATENT-3,621,406			US-PATENT-3,700,334
		US-PATENT-3,678,654	N72-33205*	c 09	.....	NASA-CASE-GSC-10835-1	N73-12447*	c 14	.....
N72-31141*	c 06	.....				US-PATENT-APPL-SN-116778			NASA-CASE-NPO-11493
		NASA-CASE-ARC-10308-1				US-PATENT-CLASS-317-101A			US-PATENT-APPL-SN-151413
		US-PATENT-APPL-SN-134568				US-PATENT-CLASS-317-235			US-PATENT-CLASS-136-224
		US-PATENT-CLASS-250-43.5R				US-PATENT-CLASS-317-235A			US-PATENT-3,700,503
		US-PATENT-CLASS-356-51				US-PATENT-CLASS-317-235AJ	N73-12486*	c 15	.....
		US-PATENT-3,679,899				US-PATENT-3,694,700			NASA-CASE-KSC-10615
N72-31226*	c 08	.....				US-PATENT-3,694,700			US-PATENT-APPL-SN-103078
		NASA-CASE-NPO-11016	N72-33230*	c 10	.....	NASA-CASE-GSC-11340-1			US-PATENT-CLASS-244-1SB
		US-PATENT-APPL-SN-889584				US-PATENT-APPL-SN-1			US-PATENT-CLASS-244-135
		US-PATENT-CLASS-235-150.1				US-PATENT-APPL-SN-107379			US-PATENT-CLASS-62-45
		US-PATENT-CLASS-235-151.1				US-PATENT-CLASS-330-12			US-PATENT-CLASS-62-7
		US-PATENT-CLASS-235-92MT				US-PATENT-CLASS-331-115			US-PATENT-3,697,021
		US-PATENT-CLASS-323-19				US-PATENT-CLASS-331-116R	N73-12487*	c 15	.....
		US-PATENT-CLASS-323-19				US-PATENT-CLASS-333-80T			NASA-CASE-FRC-10019
		US-PATENT-CLASS-340-347AD				US-PATENT-3,693,105			US-PATENT-APPL-SN-880398
		US-PATENT-3,681,581				US-PATENT-3,693,105			US-PATENT-CLASS-204-192
N72-31235*	c 09	.....	N72-33377*	c 14	.....	NASA-CASE-MFS-20760			US-PATENT-3,700,575
		NASA-CASE-ERC-10214				US-PATENT-APPL-SN-99174	N73-12488*	c 15	.....
		US-PATENT-APPL-SN-863914				US-PATENT-CLASS-73-141AB			NASA-CASE-ARC-10345-1
		US-PATENT-CLASS-343-770				US-PATENT-CLASS-73-85			US-PATENT-APPL-SN-193671
		US-PATENT-CLASS-343-771				US-PATENT-CLASS-73-85			US-PATENT-CLASS-287-85F
		US-PATENT-CLASS-343-786				US-PATENT-3,693,418			US-PATENT-CLASS-308-2A
		US-PATENT-CLASS-343-797	N72-33476*	c 15	.....	NASA-CASE-XGS-07805			US-PATENT-CLASS-74-5F
		US-PATENT-CLASS-343-853				US-PATENT-APPL-SN-104884			US-PATENT-3,700,291
		US-PATENT-3,680,142				US-PATENT-CLASS-308-10	N73-12489*	c 15	.....
N72-31273*	c 10	.....				US-PATENT-3,694,041			NASA-CASE-MSC-12357
		NASA-CASE-KSC-10647-1				US-PATENT-3,694,041			US-PATENT-APPL-SN-662763
		US-PATENT-APPL-SN-774691	N72-33477*	c 15	.....	NASA-CASE-NPO-11340			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-178-7.5E				US-PATENT-APPL-SN-147997			US-PATENT-CLASS-264-28
		US-PATENT-CLASS-315-222R				US-PATENT-CLASS-137-13			US-PATENT-CLASS-264-36
		US-PATENT-CLASS-315-30R				US-PATENT-CLASS-137-81.5			US-PATENT-CLASS-264-40
		US-PATENT-CLASS-330-27R				US-PATENT-CLASS-60-1			US-PATENT-3,697,630
		US-PATENT-3,678,191				US-PATENT-CLASS-60-36	N73-12492* #	c 15	.....
N72-31446*	c 14	.....				US-PATENT-3,693,346			NASA-CASE-XLA-08914
		NASA-CASE-ERC-10087-2				US-PATENT-3,693,346			US-PATENT-APPL-SN-810576
		US-PATENT-APPL-SN-738315	N72-33681*	c 24	.....	NASA-CASE-LEW-10518-1	N73-12495* #	c 15	.....
		US-PATENT-APPL-SN-91642				US-PATENT-APPL-SN-863280			NASA-CASE-NPO-13086-1
		US-PATENT-CLASS-29-588				US-PATENT-CLASS-176-11			US-PATENT-APPL-SN-292477
		US-PATENT-CLASS-317-234D				US-PATENT-3,694,313	N73-12547*	c 17	.....
		US-PATENT-CLASS-317-234G	N72-33696*	c 25	.....	NASA-CASE-GSC-11291-1			NASA-CASE-LAR-10539-1
		US-PATENT-CLASS-317-235M				US-PATENT-APPL-SN-102412			US-PATENT-APPL-SN-136085
		US-PATENT-CLASS-317-235R				US-PATENT-CLASS-250-83.6R			US-PATENT-CLASS-23-230R
		US-PATENT-3,686,542				US-PATENT-3,694,655	N73-12604*	c 18	.....
N72-31483*	c 15	.....				US-PATENT-3,694,655			NASA-CASE-MFS-20408
		NASA-CASE-LAR-10061-1	N73-12175*	c 08	.....	NASA-CASE-NPO-11406			US-PATENT-APPL-SN-71048
		US-PATENT-APPL-SN-104047				US-PATENT-APPL-SN-95183			US-PATENT-CLASS-161-93
		US-PATENT-CLASS-251-331				US-PATENT-CLASS-235-152	N73-12884*	c 30	.....
		US-PATENT-CLASS-251-86				US-PATENT-CLASS-331-78			NASA-CASE-MSC-12391
		US-PATENT-3,680,830				US-PATENT-CLASS-340-146.1AL			US-PATENT-APPL-SN-106465
N72-31637*	c 21	.....				US-PATENT-3,700,869			US-PATENT-CLASS-244-155
		NASA-CASE-GSC-10945-1				US-PATENT-3,700,869			US-PATENT-3,700,193
		US-PATENT-APPL-SN-75431	N73-12176*	c 08	.....	NASA-CASE-KSC-10595	N73-13008*	c 02	.....
		US-PATENT-CLASS-60-23				US-PATENT-APPL-SN-98772			NASA-CASE-GSC-11077-1
		US-PATENT-CLASS-60-26				US-PATENT-CLASS-235-155			US-PATENT-APPL-SN-127618
		US-PATENT-3,678,685				US-PATENT-CLASS-340-347DD			US-PATENT-CLASS-244-32
N72-32169*	c 07	.....				US-PATENT-3,697,733			US-PATENT-3,698,667
		NASA-CASE-NPO-11361				US-PATENT-3,697,733	N73-13114*	c 05	.....
		US-PATENT-APPL-SN-112988	N73-12177*	c 08	.....	NASA-CASE-NPO-11371			NASA-CASE-MSC-13604-1
		US-PATENT-CLASS-343-781				US-PATENT-APPL-SN-117575			US-PATENT-APPL-SN-78717
		US-PATENT-CLASS-343-837				US-PATENT-CLASS-340-146.1AQ			US-PATENT-CLASS-28-28N
		US-PATENT-CLASS-343-840				US-PATENT-CLASS-340-146.1AV			US-PATENT-CLASS-273-1E
		US-PATENT-CLASS-343-915				US-PATENT-3,697,950			US-PATENT-CLASS-35-222R
		US-PATENT-3,680,144	N73-12211*	c 09	.....	NASA-CASE-ERC-10412-1	N73-13128*	c 06	.....
N72-32452*	c 14	.....				US-PATENT-APPL-SN-72024			NASA-CASE-GSC-11214-1
		NASA-CASE-MFS-15162				US-PATENT-CLASS-343-11R			US-PATENT-APPL-SN-115134
		US-PATENT-APPL-SN-100639				US-PATENT-CLASS-343-11VB			US-PATENT-CLASS-117-35R
		US-PATENT-CLASS-350-79				US-PATENT-CLASS-343-5DP	N73-13129*	c 06	.....
		US-PATENT-CLASS-356-241				US-PATENT-3,696,418			NASA-CASE-XNP-08124-2
		US-PATENT-3,694,094	N73-12214* #	c 09	.....	NASA-CASE-NPO-13091-1			US-PATENT-APPL-SN-97829
N72-32487*	c 15	.....				US-PATENT-APPL-SN-290022			US-PATENT-CLASS-75-66
		NASA-CASE-LAR-10541-1				US-PATENT-3,696,418	N73-13149*	c 07	.....
		US-PATENT-APPL-SN-138229	N73-12244*	c 10	.....	NASA-CASE-NPO-11631			NASA-CASE-NPO-11302-1
		US-PATENT-CLASS-118-49.1				US-PATENT-APPL-SN-123253			US-PATENT-APPL-SN-70967
		US-PATENT-CLASS-204-298				US-PATENT-CLASS-179-1P			US-PATENT-CLASS-178-69.5
		US-PATENT-CLASS-219-121P				US-PATENT-CLASS-325-473			US-PATENT-CLASS-235-150.53
		US-PATENT-CLASS-219-273							

			US-PATENT-CLASS-235-181				US-PATENT-CLASS-60-37				US-PATENT-CLASS-174-52S
			US-PATENT-CLASS-325-325				US-PATENT-3,702,532				US-PATENT-CLASS-29-589
			US-PATENT-CLASS-340-146.1				NASA-CASE-HQN-10654-1				US-PATENT-CLASS-29-591
N73-13187*	c 08		US-PATENT-3,701,894	N73-13489*	c 16		US-PATENT-APPL-SN-182978				US-PATENT-CLASS-317-234A
			NASA-CASE-GSC-10975-1				US-PATENT-CLASS-324-5R				US-PATENT-CLASS-317-234G
			US-PATENT-APPL-SN-100996				US-PATENT-CLASS-331-94				US-PATENT-3,705,255
			US-PATENT-CLASS-340-172.5				US-PATENT-3,702,972	N73-14584*	c 18		NASA-CASE-LAR-10894-1
			US-PATENT-3,702,463	N73-13562*	c 18		NASA-CASE-ARC-10196-1				US-PATENT-APPL-SN-189375
N73-13208*	c 09		NASA-CASE-LEW-11192-1				US-PATENT-APPL-SN-115082				US-PATENT-CLASS-106-39R
			US-PATENT-APPL-SN-198285				US-PATENT-CLASS-260-2.5F				US-PATENT-CLASS-106-55
			US-PATENT-CLASS-315-3.5				US-PATENT-3,702,841				US-PATENT-CLASS-106-58
			US-PATENT-CLASS-315-5.38	N73-13643*	c 21		NASA-CASE-HQN-10703				US-PATENT-CLASS-106-63
			US-PATENT-3,702,951				US-PATENT-APPL-SN-156724				US-PATENT-CLASS-264-DIG.36
N73-13209*	c 09		NASA-CASE-XLA-05099				US-PATENT-CLASS-340-27NA				US-PATENT-CLASS-264-65
			US-PATENT-APPL-SN-98798				US-PATENT-CLASS-340-33				US-PATENT-3,706,583
			US-PATENT-CLASS-235-152				US-PATENT-CLASS-340-97	N73-14692*	c 21		NASA-CASE-ERC-10392
			US-PATENT-CLASS-307-207				US-PATENT-CLASS-343-112CA				US-PATENT-APPL-SN-36534
			US-PATENT-CLASS-307-215				US-PATENT-3,699,511				US-PATENT-CLASS-340-27AT
			US-PATENT-3,700,868	N73-13644*	c 21		NASA-CASE-NPO-11481				US-PATENT-3,706,970
N73-13235*	c 10		NASA-CASE-KSC-10003				US-PATENT-APPL-SN-134571	N73-14853*	c 31		NASA-CASE-GSC-10590-1
			US-PATENT-APPL-SN-60883				US-PATENT-CLASS-179-100.2A				US-PATENT-APPL-SN-130353
			US-PATENT-CLASS-178-DIG.6				US-PATENT-CLASS-340-174.1R				US-PATENT-CLASS-102-49.1
			US-PATENT-CLASS-178-6				US-PATENT-CLASS-346-138				US-PATENT-3,706,281
			US-PATENT-CLASS-307-242				US-PATENT-CLASS-346-74MD	N73-14854*	c 31		NASA-CASE-MSC-12433
			US-PATENT-CLASS-307-259				US-PATENT-CLASS-74-5.22				US-PATENT-APPL-SN-103551
			US-PATENT-CLASS-328-104				US-PATENT-3,697,968				US-PATENT-CLASS-244-155
			US-PATENT-CLASS-328-154	N73-13660*	c 23		NASA-CASE-MFS-20809				US-PATENT-3,702,688
			US-PATENT-3,702,898				US-PATENT-APPL-SN-173185	N73-14855*	c 31		NASA-CASE-NPO-10680
N73-13257*	c 11		NASA-CASE-LAR-10574-1				US-PATENT-CLASS-315-169R				US-PATENT-APPL-SN-104048
			US-PATENT-APPL-SN-66206				US-PATENT-CLASS-315-169TV				US-PATENT-CLASS-74-2
			US-PATENT-CLASS-244-1SS				US-PATENT-CLASS-317-101A				US-PATENT-3,706,230
			US-PATENT-3,698,659				US-PATENT-3,700,961	N73-15235*	c 09		NASA-CASE-NPO-12106
N73-13415*	c 14		NASA-CASE-LAR-10855-1	N73-13661*	c 23		NASA-CASE-MSC-12404-1				US-PATENT-APPL-SN-175881
			US-PATENT-APPL-SN-166541				US-PATENT-APPL-SN-142662				US-PATENT-CLASS-317-234V
			US-PATENT-CLASS-73-147				US-PATENT-CLASS-356-106S				US-PATENT-CLASS-317-235AG
			US-PATENT-CLASS-73-182				US-PATENT-3,702,735				US-PATENT-CLASS-317-235K
			US-PATENT-CLASS-73-189	N73-13662*	c 23		NASA-CASE-MFS-20243				US-PATENT-CLASS-331-107G
			US-PATENT-CLASS-73-212				US-PATENT-APPL-SN-59894				US-PATENT-CLASS-331-177R
			US-PATENT-3,699,811				US-PATENT-CLASS-250-51.5				US-PATENT-CLASS-331-90
N73-13416*	c 14		NASA-CASE-GSC-11302-1				US-PATENT-CLASS-250-52				US-PATENT-3,694,771
			US-PATENT-APPL-SN-168650				US-PATENT-3,702,933	N73-16106*	c 06		NASA-CASE-LAR-10668-1
			US-PATENT-CLASS-73-71.6	N73-13773*	c 28		NASA-CASE-LEW-10374-1				US-PATENT-APPL-SN-172459
			US-PATENT-3,699,807				US-PATENT-APPL-SN-107380				US-PATENT-CLASS-23-232E
N73-13417*	c 14		NASA-CASE-XLE-05230-2				US-PATENT-CLASS-137-81.5				US-PATENT-CLASS-23-232R
			US-PATENT-APPL-SN-147099				US-PATENT-CLASS-60-211				US-PATENT-CLASS-23-254E
			US-PATENT-APPL-SN-877717				US-PATENT-CLASS-60-240				US-PATENT-CLASS-23-254R
			US-PATENT-CLASS-136-233				US-PATENT-CLASS-60-243				US-PATENT-CLASS-250-71R
			US-PATENT-CLASS-29-573				US-PATENT-3,702,536				US-PATENT-CLASS-250-83.3UV
			US-PATENT-CLASS-29-624	N73-13898*	c 31		NASA-CASE-LAR-10549-1				US-PATENT-3,709,663
			US-PATENT-3,699,645				US-PATENT-APPL-SN-108824	N73-16121*	c 07		NASA-CASE-NPO-11572
N73-13418*	c 14		NASA-CASE-MFS-14216				US-PATENT-CLASS-244-139				US-PATENT-APPL-SN-125234
			US-PATENT-APPL-SN-50208				US-PATENT-CLASS-60-291				US-PATENT-CLASS-179-15AN
			US-PATENT-CLASS-137-487.5				US-PATENT-3,700,192				US-PATENT-CLASS-179-15BC
			US-PATENT-CLASS-137-81	N73-13921*	c 32		NASA-CASE-MSC-12233-2				US-PATENT-CLASS-325-60
			US-PATENT-CLASS-92-49				US-PATENT-APPL-SN-107298				US-PATENT-CLASS-343-200
			US-PATENT-3,698,412				US-PATENT-CLASS-229-DIG.11				US-PATENT-3,710,257
N73-13420*	c 14		NASA-CASE-NPO-11418-1				US-PATENT-CLASS-52-284	N73-16205*	c 10		NASA-CASE-NPO-11282
			US-PATENT-APPL-SN-193947				US-PATENT-CLASS-52-594				US-PATENT-APPL-SN-101354
			US-PATENT-CLASS-333-81B				US-PATENT-3,702,520				US-PATENT-CLASS-325-346
			US-PATENT-CLASS-333-98R	N73-14130*	c 07		NASA-CASE-NPO-11661				US-PATENT-CLASS-325-419
			US-PATENT-3,702,979				US-PATENT-APPL-SN-200682				US-PATENT-3,710,261
N73-13435* #	c 14		NASA-CASE-GSC-11533-1				US-PATENT-CLASS-343-782	N73-16206*	c 10		NASA-CASE-ERC-10285
			US-PATENT-APPL-SN-305013				US-PATENT-CLASS-343-837				US-PATENT-APPL-SN-55333
N73-13462*	c 15		NASA-CASE-NPO-11479				US-PATENT-CLASS-343-915				US-PATENT-CLASS-331-45
			US-PATENT-APPL-SN-170440				US-PATENT-3,705,406				US-PATENT-CLASS-343-100R
			US-PATENT-CLASS-137-608	N73-14214*	c 09		NASA-CASE-ARC-10467-1				US-PATENT-CLASS-343-100SA
			US-PATENT-CLASS-137-81.5				US-PATENT-APPL-SN-212028				US-PATENT-CLASS-343-853
			US-PATENT-CLASS-138-45				US-PATENT-CLASS-250-205				US-PATENT-3,710,329
			US-PATENT-CLASS-251-122				US-PATENT-CLASS-250-211J	N73-16483*	c 14		NASA-CASE-ERC-10226-1
			US-PATENT-3,700,005				US-PATENT-CLASS-250-217SS				US-PATENT-APPL-SN-124909
N73-13463*	c 15		NASA-CASE-MFS-20317				US-PATENT-CLASS-307-310				US-PATENT-APPL-SN-808822
			US-PATENT-APPL-SN-67730				US-PATENT-CLASS-307-311				US-PATENT-CLASS-250-209
			US-PATENT-CLASS-173-131				US-PATENT-3,705,316				US-PATENT-CLASS-250-215
			US-PATENT-CLASS-72-447	N73-14427*	c 14		NASA-CASE-NPO-10758				US-PATENT-CLASS-250-217
			US-PATENT-CLASS-72-476				US-PATENT-APPL-SN-81096				US-PATENT-CLASS-315-153
			US-PATENT-3,699,799				US-PATENT-CLASS-352-169				US-PATENT-CLASS-340-25
N73-13464*	c 15		NASA-CASE-NPO-10812				US-PATENT-CLASS-95-12.5				US-PATENT-CLASS-340-27R
			US-PATENT-APPL-SN-129073				US-PATENT-CLASS-95-59				US-PATENT-3,708,671
			US-PATENT-CLASS-425-113				US-PATENT-3,704,659	N73-16484*	c 14		NASA-CASE-LAR-10739-1
			US-PATENT-CLASS-425-133	N73-14428*	c 14		NASA-CASE-NPO-10764-1				US-PATENT-APPL-SN-134567
			US-PATENT-CLASS-425-176				US-PATENT-APPL-SN-836280				US-PATENT-CLASS-250-217F
			US-PATENT-CLASS-72-258				US-PATENT-CLASS-252-408				US-PATENT-CLASS-340-228S
			US-PATENT-3,698,848				US-PATENT-3,700,603				US-PATENT-CLASS-340-418
N73-13465*	c 15		NASA-CASE-LEW-10805-1	N73-14429*	c 14		NASA-CASE-NPO-11387				US-PATENT-3,708,674
			US-PATENT-APPL-SN-29917				US-PATENT-APPL-SN-142719	N73-16536*	c 16		NASA-CASE-LAR-10311-1
			US-PATENT-CLASS-148-11.5R				US-PATENT-CLASS-73-57				US-PATENT-APPL-SN-31702
			US-PATENT-3,702,791				US-PATENT-CLASS-73-60				US-PATENT-CLASS-250-199
N73-13466*	c 15		NASA-CASE-MFS-20944				US-PATENT-3,706,221				US-PATENT-CLASS-340-171
			US-PATENT-APPL-SN-148756	N73-14468*	c 15		NASA-CASE-LAR-10103-1				US-PATENT-CLASS-350-293
			US-PATENT-CLASS-91-363A				US-PATENT-APPL-SN-103230				US-PATENT-3,710,122
			US-PATENT-CLASS-91-448				US-PATENT-CLASS-219-101	N73-16764*	c 27		NASA-CASE-NPO-12015
			US-PATENT-3,702,575				US-PATENT-CLASS-219-119				US-PATENT-APPL-SN-74862
N73-13467*	c 15		NASA-CASE-NPO-11369				US-PATENT-CLASS-29-203V				US-PATENT-CLASS-149-19
			US-PATENT-APPL-SN-129072				US-PATENT-3,705,288				US-PATENT-CLASS-149-36
			US-PATENT-CLASS-60-1	N73-14469*	c 15		NASA-CASE-GSC-10791-1				US-PATENT-3,708,359
			US-PATENT-CLASS-60-23				US-PATENT-APPL-SN-84289	N73-16918*	c 33		NASA-CASE-MSC-15567-1

		US-PATENT-APPL-SN-87551			US-PATENT-CLASS-340-163			US-PATENT-CLASS-128-206F
		US-PATENT-CLASS-204-324			US-PATENT-3,715,723			US-PATENT-CLASS-324-78E
		US-PATENT-CLASS-204-325	N73-20217*	c 08	NASA-CASE-LAR-10128-1			US-PATENT-3,729,676
		US-PATENT-CLASS-204-328			US-PATENT-APPL-SN-84002	N73-24513*	c 15	NASA-CASE-NPO-11417
		US-PATENT-3,708,419			US-PATENT-CLASS-235-92FQ			US-PATENT-APPL-SN-120241
N73-19004*	c 02	NASA-CASE-ERC-10439			US-PATENT-CLASS-235-92R			US-PATENT-CLASS-417-391
		US-PATENT-APPL-SN-54271			US-PATENT-CLASS-235-92T			US-PATENT-CLASS-60-25
		US-PATENT-CLASS-244-17.13			US-PATENT-CLASS-340-347AD			US-PATENT-3,732,040
		US-PATENT-CLASS-244-77D			US-PATENT-3,714,645	N73-24569*	c 17	NASA-CASE-LEW-10920-1
		US-PATENT-CLASS-318-489	N73-20231*	c 09	NASA-CASE-ARC-10264-1			US-PATENT-APPL-SN-106424
		US-PATENT-3,711,042			US-PATENT-APPL-SN-80368			US-PATENT-CLASS-204-192
N73-19234*	c 09	NASA-CASE-GSC-11013-1			US-PATENT-CLASS-328-167			US-PATENT-3,732,158
		US-PATENT-APPL-SN-200717			US-PATENT-CLASS-330-109	N73-24783*	c 28	NASA-CASE-NPO-11880
		US-PATENT-CLASS-343-754			US-PATENT-CLASS-330-86			US-PATENT-APPL-SN-208535
		US-PATENT-CLASS-343-839			US-PATENT-3,714,588			US-PATENT-CLASS-313-DIG.8
		US-PATENT-CLASS-343-854	N73-20232*	c 09	NASA-CASE-MFS-21433			US-PATENT-CLASS-313-231
		US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-236281			US-PATENT-CLASS-313-63
		US-PATENT-3,713,163			US-PATENT-CLASS-307-230			US-PATENT-CLASS-60-202
N73-19235*	c 09	NASA-CASE-MFS-20407			US-PATENT-CLASS-307-304			US-PATENT-3,713,204
		US-PATENT-APPL-SN-116777			US-PATENT-CLASS-330-20			US-PATENT-3,728,861
		US-PATENT-CLASS-317-235AM			US-PATENT-CLASS-330-22	N73-24784*	c 28	NASA-CASE-NPO-11559
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-330-30D			US-PATENT-APPL-SN-147996
		US-PATENT-CLASS-317-235R			US-PATENT-CLASS-330-35			US-PATENT-CLASS-102-49.7
		US-PATENT-CLASS-317-235T			US-PATENT-CLASS-330-40			US-PATENT-CLASS-102-49.8
		US-PATENT-CLASS-317-235UA			US-PATENT-CLASS-330-80T			US-PATENT-CLASS-60-254
		US-PATENT-3,714,526			US-PATENT-3,715,693			US-PATENT-CLASS-60-256
N73-19419*	c 14	NASA-CASE-LAR-10226-1	N73-20253*	c 10	NASA-CASE-LAR-10310-1			US-PATENT-3,729,935
		US-PATENT-APPL-SN-98774			US-PATENT-APPL-SN-147103	N73-25125*	c 05	NASA-CASE-MFS-20332-2
		US-PATENT-CLASS-250-217R			US-PATENT-CLASS-235-197			US-PATENT-APPL-SN-195061
		US-PATENT-CLASS-95-11.5R			US-PATENT-3,714,405			US-PATENT-APPL-SN-869260
		US-PATENT-CLASS-95-11R	N73-20254*	c 10	NASA-CASE-NPO-11868			US-PATENT-CLASS-128-142.5
		US-PATENT-3,712,195			US-PATENT-APPL-SN-192101			US-PATENT-CLASS-137-538
N73-19420*	c 14	NASA-CASE-MFS-20774			US-PATENT-CLASS-307-221R			US-PATENT-CLASS-2-2.1A
		US-PATENT-APPL-SN-161028			US-PATENT-CLASS-328-187			US-PATENT-3,720,208
		US-PATENT-CLASS-73-84			US-PATENT-CLASS-328-37	N73-25160*	c 07	NASA-CASE-ARC-10097-2
		US-PATENT-3,712,121			US-PATENT-CLASS-328-61			US-PATENT-APPL-SN-115083
N73-19421*	c 14	NASA-CASE-MFS-20242			US-PATENT-3,718,863			US-PATENT-APPL-SN-768662
		US-PATENT-APPL-SN-213004	N73-20267*	c 11	NASA-CASE-MFS-21362			US-PATENT-CLASS-325-113
		US-PATENT-CLASS-73-71.6			US-PATENT-APPL-SN-211411			US-PATENT-CLASS-325-139
		US-PATENT-3,712,120			US-PATENT-CLASS-73-432SD			US-PATENT-CLASS-325-45
N73-19457*	c 15	NASA-CASE-MFS-20698-2			US-PATENT-3,714,833			US-PATENT-CLASS-325-61
		US-PATENT-APPL-SN-136086	N73-20474*	c 14	NASA-CASE-ERC-10360			US-PATENT-CLASS-340-207
		US-PATENT-APPL-SN-3418			US-PATENT-APPL-SN-55535			US-PATENT-CLASS-340-258R
		US-PATENT-CLASS-423-446			US-PATENT-CLASS-340-27R			US-PATENT-3,719,891
		US-PATENT-CLASS-423-625			US-PATENT-3,714,624	N73-25161*	c 07	NASA-CASE-NPO-11707
		US-PATENT-3,714,332			NASA-CASE-LAR-10726-1			US-PATENT-APPL-SN-196399
N73-19458*	c 15	NASA-CASE-LAR-10195-1	N73-20475*	c 14	US-PATENT-APPL-SN-146935			US-PATENT-CLASS-343-6.5R
		US-PATENT-APPL-SN-201782			US-PATENT-CLASS-250-231			US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-259-4			US-PATENT-CLASS-250-83.3H			US-PATENT-3,729,736
		US-PATENT-3,712,591			US-PATENT-3,714,432	N73-25206*	c 08	NASA-CASE-NPO-11497
N73-19630* #	c 21	NASA-CASE-GSC-11188-2	N73-20476*	c 14	NASA-CASE-MFS-20673			US-PATENT-APPL-SN-155565
		US-PATENT-APPL-SN-244440			US-PATENT-APPL-SN-94049			US-PATENT-CLASS-235-10.2
N73-19793*	c 28	NASA-CASE-LEW-11187-1			US-PATENT-CLASS-73-90			US-PATENT-CLASS-235-151.27
		US-PATENT-APPL-SN-147922			US-PATENT-CLASS-73-91			US-PATENT-CLASS-235-92CV
		US-PATENT-CLASS-60-39.28R			US-PATENT-3,714,821			US-PATENT-CLASS-235-92DN
		US-PATENT-3,713,290	N73-20477*	c 14	NASA-CASE-ARC-10443.1			US-PATENT-CLASS-235-92EA
N73-20039*	c 03	NASA-CASE-GSC-10814-1			US-PATENT-APPL-SN-128419			US-PATENT-CLASS-235-92EV
		US-PATENT-APPL-SN-41404			US-PATENT-CLASS-250-83.3R			US-PATENT-CLASS-235-92R
		US-PATENT-CLASS-244-1SA			US-PATENT-CLASS-250-83.3R			US-PATENT-3,729,129
		US-PATENT-CLASS-244-1SS			US-PATENT-3,715,590	N73-25240*	c 10	NASA-CASE-MSC-12428-1
		US-PATENT-3,715,092	N73-20478*	c 14	NASA-CASE-NPO-10985			US-PATENT-APPL-SN-170681
N73-20040*	c 03	NASA-CASE-NPO-11771			US-PATENT-APPL-SN-74759			US-PATENT-CLASS-179-1SA
		US-PATENT-APPL-SN-200762			US-PATENT-CLASS-324-30R			US-PATENT-CLASS-235-151.31
		US-PATENT-CLASS-244-1.55			US-PATENT-CLASS-324-65P			US-PATENT-CLASS-324-77R
		US-PATENT-CLASS-250-212			US-PATENT-CLASS-73-194E			US-PATENT-CLASS-324-78J
		US-PATENT-CLASS-250-234			US-PATENT-3,712,132			US-PATENT-3,732,405
		US-PATENT-CLASS-60-26	N73-20514*	c 15	NASA-CASE-NPO-11213	N73-25241*	c 10	NASA-CASE-GSC-11239-1
		US-PATENT-3,715,600			US-PATENT-APPL-SN-78703			US-PATENT-APPL-SN-180683
N73-20137*	c 05	NASA-CASE-LAR-10076-1			US-PATENT-CLASS-195-127			US-PATENT-CLASS-325-363
		US-PATENT-APPL-SN-84290			US-PATENT-3,713,987			US-PATENT-CLASS-325-67
		US-PATENT-CLASS-165-46	N73-20740*	c 32	NASA-CASE-LAR-10765-1			US-PATENT-3,737,781
		US-PATENT-CLASS-312-1			US-PATENT-APPL-SN-138230	N73-25243*	c 10	NASA-CASE-MFS-21919-1
		US-PATENT-CLASS-62-259			US-PATENT-CLASS-356-32			US-PATENT-APPL-SN-193456
		US-PATENT-3,713,480			US-PATENT-CLASS-73-88A			US-PATENT-CLASS-317-100
N73-20174*	c 07	NASA-CASE-GSC-10087-4			US-PATENT-3,715,915			US-PATENT-CLASS-317-101DH
		US-PATENT-APPL-SN-47440	N73-20741*	c 23	NASA-CASE-ARC-10194-1			US-PATENT-3,735,206
		US-PATENT-APPL-SN-701679			US-PATENT-APPL-SN-107659	N73-25262*	c 12	NASA-CASE-LAR-10578-1
		US-PATENT-CLASS-325-12			US-PATENT-CLASS-350-202			US-PATENT-APPL-SN-233098
		US-PATENT-CLASS-325-17			US-PATENT-3,715,152			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-325-5	N73-22076* #	c 07	NASA-CASE-NPO-10166-1			US-PATENT-3,731,528
		US-PATENT-CLASS-325-63			US-PATENT-APPL-SN-192803	N73-25460*	c 14	NASA-CASE-MFS-20916
		US-PATENT-CLASS-325-7	N73-22710*	c 27	NASA-CASE-NPO-10893			US-PATENT-APPL-SN-212165
		US-PATENT-CLASS-325-8			US-PATENT-APPL-SN-845584			US-PATENT-CLASS-73-189
		US-PATENT-CLASS-325-9			US-PATENT-CLASS-260-94.8			US-PATENT-3,731,531
		US-PATENT-CLASS-343-179	N73-24176*	c 07	US-PATENT-3,634,383	N73-25461*	c 14	NASA-CASE-KSC-10108
		US-PATENT-3,715,663			NASA-CASE-NPO-11751			US-PATENT-APPL-SN-73922
N73-20175*	c 07	NASA-CASE-KSC-10698			US-PATENT-APPL-SN-192141			US-PATENT-CLASS-343-14
		US-PATENT-APPL-SN-213949			US-PATENT-CLASS-343-DIG.2			US-PATENT-CLASS-343-17.5
		US-PATENT-CLASS-324-72			US-PATENT-CLASS-343-915			US-PATENT-CLASS-343-6.8R
		US-PATENT-CLASS-73-170R			US-PATENT-3,729,743			US-PATENT-3,732,567
		US-PATENT-3,715,660	N73-24472*	c 14	NASA-CASE-LEW-11072-1	N73-25462*	c 14	NASA-CASE-NPO-11686
N73-20176*	c 07	NASA-CASE-KSC-10521			US-PATENT-APPL-SN-104885			US-PATENT-APPL-SN-212900
		US-PATENT-APPL-SN-212921			US-PATENT-CLASS-136-225			US-PATENT-CLASS-250-203R
		US-PATENT-CLASS-340-146.1C	N73-24473*	c 14	US-PATENT-3,729,343			US-PATENT-CLASS-250-214
		US-PATENT-CLASS-340-147R			NASA-CASE-MFS-20418			US-PATENT-CLASS-250-214
					US-PATENT-APPL-SN-162101			US-PATENT-CLASS-250-83.3H

N73-25463*	c 14	US-PATENT-CLASS-356-152	N73-26175*	c 08	US-PATENT-3,737,231	N73-26958*	c 33	US-PATENT-3,733,424
		US-PATENT-3,723,745			NASA-CASE-NPO-11821-1			NASA-CASE-NPO-11330
		NASA-CASE-ARC-10278-1			US-PATENT-APPL-SN-236285			US-PATENT-APPL-SN-118269
		US-PATENT-APPL-SN-154933			US-PATENT-CLASS-235-152			US-PATENT-CLASS-285-DIG.21
N73-25512*	c 15	US-PATENT-CLASS-356-110	N73-26176*	c 08	US-PATENT-CLASS-235-164	N73-27052*	c 04	US-PATENT-CLASS-285-316
		US-PATENT-3,729,260			US-PATENT-CLASS-328-167			US-PATENT-3,737,181
		NASA-CASE-LAR-10129-1			US-PATENT-3,732,409			NASA-CASE-GSC-11092-2
		US-PATENT-APPL-SN-99201			NASA-CASE-NPO-11456			US-PATENT-APPL-SN-139250
N73-25513*	c 15	US-PATENT-CLASS-182-5	N73-26195*	c 09	US-PATENT-APPL-SN-153543	N73-27062*	c 05	US-PATENT-APPL-SN-60950
		US-PATENT-CLASS-188-65.1			US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-103.5R
		US-PATENT-CLASS-24-134R			US-PATENT-3,740,725			US-PATENT-3,745,090
		US-PATENT-CLASS-254-156			NASA-CASE-GSC-10990-1			NASA-CASE-LEW-11669-1
N73-25760*	c 25	US-PATENT-3,729,068	N73-26228*	c 10	US-PATENT-APPL-SN-93329	N73-27086*	c 06	US-PATENT-APPL-SN-198885
		NASA-CASE-GSC-11205-1			US-PATENT-CLASS-333-73R			US-PATENT-CLASS-128-2
		US-PATENT-APPL-SN-107376			US-PATENT-CLASS-333-73S			US-PATENT-CLASS-128-24A
		US-PATENT-CLASS-188-266			US-PATENT-CLASS-333-82A			US-PATENT-CLASS-128-305
N73-25952*	c 33	US-PATENT-CLASS-244-15A	N73-26229*	c 10	US-PATENT-CLASS-333-84M	N73-27150* #	c 09	US-PATENT-CLASS-32-28
		US-PATENT-3,737,118			US-PATENT-3,737,815			US-PATENT-CLASS-32-58
		NASA-CASE-LEW-11180-1			NASA-CASE-ERC-10403-1			US-PATENT-3,736,938
		US-PATENT-APPL-SN-175852			US-PATENT-APPL-SN-253405			NASA-CASE-GSC-10225-1
N73-26004*	c 02	US-PATENT-CLASS-313-161	N73-26230*	c 10	US-PATENT-CLASS-317-DIG.6	N73-27171*	c 10	US-PATENT-APPL-SN-710621
		US-PATENT-CLASS-313-231			US-PATENT-CLASS-321-11			US-PATENT-CLASS-195-66R
		US-PATENT-CLASS-60-202			US-PATENT-CLASS-321-45C			US-PATENT-3,745,089
		US-PATENT-3,735,591			US-PATENT-3,737,757			NASA-CASE-ERC-10224-2
N73-26005*	c 02	NASA-CASE-LEW-10359-2	N73-26238*	c 11	NASA-CASE-NPO-11569	N73-27376* #	c 14	US-PATENT-APPL-SN-221833
		US-PATENT-APPL-SN-150215			US-PATENT-APPL-SN-199957			US-PATENT-APPL-SN-868775
		US-PATENT-APPL-SN-47063			US-PATENT-CLASS-307-220			US-PATENT-CLASS-29-580
		US-PATENT-CLASS-102-105			US-PATENT-CLASS-307-233			US-PATENT-CLASS-317-234G
N73-26006*	c 02	US-PATENT-CLASS-244-117A	N73-26430*	c 14	US-PATENT-3,737,676	N73-27377*	c 14	US-PATENT-CLASS-317-234L
		US-PATENT-CLASS-60-200A			NASA-CASE-MS-13907-1			US-PATENT-CLASS-317-234M
		US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-254177			US-PATENT-CLASS-317-234N
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-235-186			US-PATENT-CLASS-317-234R
N73-26007*	c 02	US-PATENT-CLASS-62-467	N73-26431*	c 14	US-PATENT-CLASS-235-194	N73-27379*	c 14	US-PATENT-3,742,316
		US-PATENT-3,720,075			US-PATENT-CLASS-235-197			NASA-CASE-NPO-11941-1
		NASA-CASE-LAR-10682-1			US-PATENT-3,737,639			US-PATENT-APPL-SN-241614
		US-PATENT-APPL-SN-127915			NASA-CASE-NPO-11366			US-PATENT-CLASS-330-70CR
N73-26008*	c 02	US-PATENT-CLASS-244-75A	N73-26432*	c 14	US-PATENT-APPL-SN-144139	N73-27378*	c 14	US-PATENT-CLASS-331-17
		US-PATENT-CLASS-244-76C			US-PATENT-CLASS-180-41			US-PATENT-CLASS-331-25
		US-PATENT-CLASS-244-77F			US-PATENT-CLASS-180-6.5			US-PATENT-CLASS-331-25
		US-PATENT-CLASS-244-77G			US-PATENT-CLASS-180-7R			US-PATENT-3,740,671
N73-26009*	c 02	US-PATENT-3,734,432	N73-26433*	c 14	US-PATENT-CLASS-180-8A	N73-27379*	c 14	US-PATENT-APPL-SN-235957
		NASA-CASE-ARC-10470-1			US-PATENT-CLASS-180-9.2R			US-PATENT-CLASS-73-28
		US-PATENT-APPL-SN-206279			US-PATENT-CLASS-180-9.5			US-PATENT-3,741,001
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-305-35EB			NASA-CASE-MFS-21046-1
N73-26010*	c 02	US-PATENT-CLASS-244-46	N73-26434*	c 14	US-PATENT-CLASS-305-39	N73-27405*	c 15	US-PATENT-APPL-SN-156725
		US-PATENT-CLASS-244-55			US-PATENT-3,730,287			US-PATENT-CLASS-272-73
		US-PATENT-3,737,121			NASA-CASE-NPO-11304			US-PATENT-CLASS-35-12C
		NASA-CASE-MS-12393-1			US-PATENT-APPL-SN-101214			US-PATENT-3,744,794
N73-26011*	c 05	US-PATENT-APPL-SN-203405	N73-26435*	c 14	US-PATENT-CLASS-219-499	N73-27406*	c 15	US-PATENT-CLASS-3,744,794
		US-PATENT-CLASS-114-122			US-PATENT-CLASS-219-50			NASA-CASE-KSC-10626
		US-PATENT-CLASS-9-11A			US-PATENT-3,733,463			US-PATENT-APPL-SN-180963
		US-PATENT-CLASS-9-2A			US-PATENT-3,733,463			US-PATENT-CLASS-222-414
N73-26012*	c 05	US-PATENT-CLASS-9-3	N73-26436*	c 14	US-PATENT-CLASS-95-1.1	N73-27446*	c 17	US-PATENT-CLASS-244-1SS
		US-PATENT-3,736,607			US-PATENT-APPL-SN-125236			US-PATENT-CLASS-244-135
		NASA-CASE-ARC-10599-1			US-PATENT-CLASS-95-1.1			US-PATENT-3,744,738
		US-PATENT-APPL-SN-247481			US-PATENT-3,736,849			NASA-CASE-FRC-10060-1
N73-26013*	c 05	US-PATENT-CLASS-165-46	N73-26437*	c 14	NASA-CASE-ERC-10276	N73-27499*	c 28	US-PATENT-APPL-SN-189290
		US-PATENT-CLASS-2-2.1			US-PATENT-APPL-SN-24155			US-PATENT-CLASS-179-175.1A
		US-PATENT-CLASS-62-176			US-PATENT-CLASS-250-209			US-PATENT-CLASS-340-5C
		US-PATENT-CLASS-62-207			US-PATENT-CLASS-340-15.5GC			US-PATENT-CLASS-73-1DV
N73-26014*	c 05	US-PATENT-CLASS-62-209	N73-26438*	c 15	US-PATENT-CLASS-343-100ME	N73-27499*	c 28	US-PATENT-3,744,294
		US-PATENT-CLASS-62-259			US-PATENT-3,737,905			NASA-CASE-MFS-20855
		US-PATENT-CLASS-62-89			NASA-CASE-KSC-10639			US-PATENT-APPL-SN-127647
		US-PATENT-3,736,764			US-PATENT-APPL-SN-181023			US-PATENT-CLASS-219-348
N73-26015*	c 05	US-PATENT-CLASS-62-89	N73-26439*	c 15	US-PATENT-CLASS-137-397	N73-27499*	c 28	US-PATENT-CLASS-53-112A
		US-PATENT-3,736,764			US-PATENT-CLASS-137-582			US-PATENT-CLASS-53-22A
		NASA-CASE-ARC-10329-1			US-PATENT-3,736,956			US-PATENT-3,745,739
		US-PATENT-APPL-SN-159857			NASA-CASE-ARC-10304-1			NASA-CASE-NPO-11377
N73-26016*	c 05	US-PATENT-CLASS-128-2.1R	N73-26440*	c 18	US-PATENT-APPL-SN-140946	N73-27499*	c 28	US-PATENT-APPL-SN-187262
		US-PATENT-CLASS-351-23			US-PATENT-CLASS-252-8.1			US-PATENT-CLASS-137-1
		US-PATENT-CLASS-351-30			US-PATENT-3,730,891			US-PATENT-CLASS-137-154
		US-PATENT-CLASS-351-36			NASA-CASE-MFS-20675			US-PATENT-CLASS-137-604
N73-26100*	c 06	US-PATENT-3,737,217	N73-26441*	c 26	US-PATENT-APPL-SN-200085	N73-27499*	c 28	US-PATENT-3,744,510
		NASA-CASE-GSC-11358-1			US-PATENT-CLASS-250-219TH			NASA-CASE-LAR-10953-1
		US-PATENT-APPL-SN-226551			US-PATENT-CLASS-356-108			US-PATENT-APPL-SN-163152
		US-PATENT-CLASS-260-46.5R			US-PATENT-CLASS-356-161			US-PATENT-CLASS-23-230R
N73-26117*	c 07	US-PATENT-3,733,350	N73-26442*	c 26	US-PATENT-CLASS-356-202	N73-27499*	c 28	US-PATENT-3,744,972
		NASA-CASE-KSC-10392			US-PATENT-3,737,237			NASA-CASE-XLE-10453-2
		US-PATENT-APPL-SN-181024			NASA-CASE-LEW-11726-1			US-PATENT-APPL-SN-180473
		US-PATENT-CLASS-343-880			US-PATENT-APPL-SN-280031			US-PATENT-APPL-SN-758540
N73-26118*	c 07	US-PATENT-CLASS-343-883	N73-26443*	c 26	US-PATENT-CLASS-156-18	N73-27499*	c 28	US-PATENT-CLASS-313-217
		US-PATENT-CLASS-343-889			US-PATENT-CLASS-174-DIG.6			US-PATENT-CLASS-313-218
		US-PATENT-CLASS-343-895			US-PATENT-CLASS-29-599			US-PATENT-CLASS-313-230
		US-PATENT-3,737,912			US-PATENT-CLASS-336-DIG.1			US-PATENT-CLASS-313-355
N73-26119*	c 07	NASA-CASE-NPO-11548	N73-26444*	c 31	US-PATENT-CLASS-336-200	N73-27499*	c 28	US-PATENT-CLASS-313-63
		US-PATENT-APPL-SN-151411			US-PATENT-3,737,824			US-PATENT-CLASS-60-202
		US-PATENT-CLASS-179-15A			NASA-CASE-MFS-20863			US-PATENT-3,744,247
		US-PATENT-CLASS-179-15BM			US-PATENT-APPL-SN-159966			NASA-CASE-LAR-10439-1
N73-26119*	c 07	US-PATENT-CLASS-325-40	N73-26445*	c 31	US-PATENT-CLASS-244-1SD	N73-27499*	c 28	US-PATENT-APPL-SN-182033
		US-PATENT-CLASS-343-204			US-PATENT-CLASS-244-137P			US-PATENT-CLASS-356-72
		US-PATENT-3,737,776			US-PATENT-3,737,117			US-PATENT-CLASS-73-339
		NASA-CASE-NPO-11426			NASA-CASE-LAR-10756-1			US-PATENT-CLASS-73-432R
N73-26119*	c 07	US-PATENT-APPL-SN-89210	N73-26910*	c 32	US-PATENT-APPL-SN-160859	N73-27941*	c 05	US-PATENT-CLASS-73-86
		US-PATENT-CLASS-250-199			US-PATENT-CLASS-235-92MT			US-PATENT-3,745,816
		US-PATENT-CLASS-331-94.5			US-PATENT-CLASS-73-67.3			NASA-CASE-MFS-21109-1
		US-PATENT-CLASS-332-7.51			US-PATENT-CLASS-73-88.5R			US-PATENT-APPL-SN-202769
N73-26119*	c 07	US-PATENT-CLASS-356-5	N73-26910*	c 32	US-PATENT-CLASS-73-91	N73-27941*	c 05	US-PATENT-CLASS-128-2.05R
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-73-91			US-PATENT-CLASS-128-2.05R
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-73-91			US-PATENT-CLASS-128-2.05R
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-73-91			US-PATENT-CLASS-128-2.05R

				US-PATENT-CLASS-128-2.06R				US-PATENT-CLASS-317-158				US-PATENT-APPL-SN-11220
				US-PATENT-CLASS-272-73				US-PATENT-3,244,943				US-PATENT-APPL-SN-51317
				US-PATENT-CLASS-73-379	N73-28573*	c 17		NASA-CASE-XNP-08876				US-PATENT-CLASS-250-105
				US-PATENT-3,744,480				US-PATENT-APPL-SN-527331				US-PATENT-CLASS-250-65R
N73-27980*	c 06			NASA-CASE-LEW-11325-1				US-PATENT-CLASS-75-66		N73-30390*	c 14	NASA-CASE-XGS-07752
				US-PATENT-APPL-SN-184960				US-PATENT-3,419,384				US-PATENT-3,749,911
				US-PATENT-CLASS-117-161P	N73-28710*	c 26		NASA-CASE-XNP-01185				US-PATENT-APPL-SN-533659
				US-PATENT-CLASS-117-161UN				US-PATENT-APPL-SN-155595				US-PATENT-CLASS-73-4
				US-PATENT-CLASS-117-228				US-PATENT-CLASS-317-158				US-PATENT-3,395,565
				US-PATENT-CLASS-161-214				US-PATENT-3,198,994		N73-30391*	c 14	NASA-CASE-XLA-05087
				US-PATENT-CLASS-161-227	N73-30078*	c 05		NASA-CASE-MFS-21010-1				US-PATENT-APPL-SN-459407
				US-PATENT-CLASS-260-30.2				US-PATENT-APPL-SN-251609				US-PATENT-CLASS-315-111
				US-PATENT-CLASS-260-30.8DS				US-PATENT-CLASS-73-379		N73-30392*	c 14	US-PATENT-3,394,286
				US-PATENT-CLASS-260-32.6N				US-PATENT-3,750,479				NASA-CASE-MFS-21441-1
				US-PATENT-CLASS-260-33.4R	N73-30097*	c 06		NASA-CASE-LAR-10670-1				US-PATENT-APPL-SN-231662
				US-PATENT-CLASS-260-33.6R				US-PATENT-APPL-SN-59892				US-PATENT-CLASS-250-394
				US-PATENT-CLASS-260-47CP				US-PATENT-CLASS-149-1				US-PATENT-CLASS-250-518
				US-PATENT-CLASS-260-65				US-PATENT-CLASS-149-36				US-PATENT-3,752,986
				US-PATENT-CLASS-260-78TF				US-PATENT-CLASS-252-301.4		N73-30393*	c 14	NASA-CASE-GSC-11487-1
				US-PATENT-CLASS-260-78UA				US-PATENT-CLASS-252-305				US-PATENT-APPL-SN-193814
				US-PATENT-3,745,149				US-PATENT-CLASS-60-215				US-PATENT-CLASS-250-203
N73-28012*	c 07			NASA-CASE-NPO-11593-1				US-PATENT-3,751,913				US-PATENT-CLASS-350-199
				US-PATENT-APPL-SN-172807	N73-30098*	c 06		NASA-CASE-MFS-21040-1				US-PATENT-CLASS-350-204
				US-PATENT-CLASS-179-15FS				US-PATENT-APPL-SN-183240				US-PATENT-CLASS-350-55
				US-PATENT-CLASS-325-419				US-PATENT-CLASS-260-485F				US-PATENT-3,752,559
				US-PATENT-CLASS-329-122				US-PATENT-3,752,847		N73-30394*	c 14	NASA-CASE-LAR-10000
				US-PATENT-3,745,255				NASA-CASE-MFS-10512				US-PATENT-APPL-SN-613235
N73-28013*	c 07			NASA-CASE-GSC-11046-1				US-PATENT-APPL-SN-606027				US-PATENT-CLASS-73-398
				US-PATENT-APPL-SN-182399				US-PATENT-CLASS-260-77.5				US-PATENT-3,446,075
				US-PATENT-CLASS-343-725				US-PATENT-3,463,761		N73-30395*	c 14	NASA-CASE-LAR-10623-1
				US-PATENT-CLASS-343-729	N73-30100*	c 06		NASA-CASE-MFS-10506				US-PATENT-APPL-SN-214086
				US-PATENT-CLASS-343-797				US-PATENT-APPL-SN-606036				US-PATENT-CLASS-15-415
				US-PATENT-CLASS-343-803				US-PATENT-CLASS-260-77.5				US-PATENT-CLASS-73-28
				US-PATENT-CLASS-343-893				US-PATENT-3,463,762				US-PATENT-CLASS-73-421.5R
				US-PATENT-3,747,111	N73-30101*	c 06		NASA-CASE-MFS-10507				US-PATENT-3,748,905
N73-28045*	c 08			NASA-CASE-XNP-00477				US-PATENT-APPL-SN-605894		N73-30457*	c 15	NASA-CASE-GSC-11149-1
				US-PATENT-APPL-SN-175497				US-PATENT-CLASS-260-615				US-PATENT-APPL-SN-152849
				US-PATENT-CLASS-340-347				US-PATENT-3,452,103				US-PATENT-CLASS-254-29A
				US-PATENT-3,219,997	N73-30102*	c 06		NASA-CASE-MFS-11492				US-PATENT-CLASS-29-452
N73-28083*	c 09			NASA-CASE-GSC-11215-1				US-PATENT-APPL-SN-707440				US-PATENT-CLASS-81-57.38
				US-PATENT-APPL-SN-114873				US-PATENT-CLASS-260-2				US-PATENT-3,749,362
				US-PATENT-CLASS-29-628				US-PATENT-3,577,356		N73-30458*	c 15	NASA-CASE-LEW-11087-1
				US-PATENT-CLASS-29-629	N73-30103*	c 06		NASA-CASE-MFS-10509				US-PATENT-APPL-SN-201904
				US-PATENT-CLASS-29-630				US-PATENT-APPL-SN-605964				US-PATENT-CLASS-308-188
				US-PATENT-CLASS-29-630A				US-PATENT-CLASS-260-77.5				US-PATENT-CLASS-308-193
				US-PATENT-3,744,128				US-PATENT-3,475,384				US-PATENT-3,751,123
N73-28084*	c 09			NASA-CASE-XNP-03623	N73-30113*	c 07		NASA-CASE-NPO-11628-1		N73-30459*	c 15	NASA-CASE-MS-13587-1
				US-PATENT-APPL-SN-471154				US-PATENT-APPL-SN-207211				US-PATENT-APPL-SN-206698
				US-PATENT-CLASS-178-69.5				US-PATENT-CLASS-325-420				US-PATENT-CLASS-137-516.27
				US-PATENT-3,402,265				US-PATENT-CLASS-325-422				US-PATENT-CLASS-137-535
N73-28144*	c 12			NASA-CASE-LAR-10612-1				US-PATENT-CLASS-329-120				US-PATENT-3,749,123
				US-PATENT-APPL-SN-233173				US-PATENT-3,746,998		N73-30460*	c 15	NASA-CASE-HQN-10638-1
				US-PATENT-CLASS-73-147	N73-30115*	c 07		NASA-CASE-KSC-10654-1				US-PATENT-APPL-SN-212977
				US-PATENT-3,744,305				US-PATENT-APPL-SN-250766				US-PATENT-CLASS-188-1C
N73-28486*	c 14			NASA-CASE-NPO-11749				US-PATENT-CLASS-178-DIG.23				US-PATENT-CLASS-297-386
				US-PATENT-APPL-SN-175267				US-PATENT-CLASS-178-6.6DD				US-PATENT-3,749,205
				US-PATENT-CLASS-324-52				US-PATENT-CLASS-178-6.8		N73-30476*	c 16	NASA-CASE-MFS-20823-1
				US-PATENT-CLASS-73-15R				US-PATENT-CLASS-179-15BS				US-PATENT-APPL-SN-175981
				US-PATENT-3,737,762				US-PATENT-3,749,831				US-PATENT-CLASS-350-3.5
N73-28487*	c 14			NASA-CASE-XLA-08916-2	N73-30135*	c 08		NASA-CASE-NPO-10817-1				US-PATENT-CLASS-356-108
				US-PATENT-APPL-SN-777765				US-PATENT-APPL-SN-82649				US-PATENT-CLASS-356-109
				US-PATENT-APPL-SN-97472				US-PATENT-CLASS-250-229				US-PATENT-3,744,912
				US-PATENT-CLASS-73-170R				US-PATENT-CLASS-250-237R		N73-30532*	c 18	NASA-CASE-ERC-10339-1
				US-PATENT-CLASS-73-432R				US-PATENT-CLASS-250-239				US-PATENT-APPL-SN-43883
				US-PATENT-3,744,320				US-PATENT-3,745,352				US-PATENT-CLASS-156-285
N73-28488*	c 14			NASA-CASE-LEW-11159-1	N73-30181*	c 09		NASA-CASE-MFS-21214-1				US-PATENT-3,745,082
				US-PATENT-APPL-SN-104346				US-PATENT-APPL-SN-235269		N73-30640*	c 21	NASA-CASE-GSC-10890-1
				US-PATENT-CLASS-250-336				US-PATENT-CLASS-313-161				US-PATENT-APPL-SN-111998
				US-PATENT-CLASS-307-308				US-PATENT-CLASS-315-248				US-PATENT-CLASS-244-1SA
				US-PATENT-3,745,357				US-PATENT-CLASS-315-324				US-PATENT-CLASS-250-203R
N73-28489*	c 14			NASA-CASE-GSC-11074-1				US-PATENT-3,745,410				US-PATENT-CLASS-250-209
				US-PATENT-APPL-SN-198362	N73-30185*	c 09		NASA-CASE-NPO-11738-1				US-PATENT-CLASS-250-236
				US-PATENT-CLASS-34-155				US-PATENT-APPL-SN-235295				US-PATENT-3,752,993
				US-PATENT-CLASS-34-160				US-PATENT-CLASS-335-296		N73-30641*	c 21	NASA-CASE-LAR-10717-1
				US-PATENT-CLASS-34-162				US-PATENT-CLASS-335-297				US-PATENT-APPL-SN-242028
				US-PATENT-3,744,148				US-PATENT-3,750,067				US-PATENT-CLASS-343-112CA
N73-28490*	c 14			NASA-CASE-GSC-11444-1	N73-30205*	c 10		NASA-CASE-NPO-11307-1				US-PATENT-CLASS-343-6.5R
				US-PATENT-APPL-SN-229128				US-PATENT-APPL-SN-169671				US-PATENT-3,750,168
				US-PATENT-CLASS-250-203R				US-PATENT-CLASS-340-277		N73-30665*	c 23	NASA-CASE-LEW-11326-1
				US-PATENT-CLASS-250-209				US-PATENT-CLASS-340-279				US-PATENT-APPL-SN-192970
				US-PATENT-CLASS-250-214R				US-PATENT-3,750,131				US-PATENT-CLASS-431-173
				US-PATENT-CLASS-356-141				NASA-CASE-MFS-20658-1				US-PATENT-CLASS-431-9
				US-PATENT-3,744,913	N73-30386*	c 14		US-PATENT-APPL-SN-205675				US-PATENT-CLASS-60-39.65
N73-28491*	c 14			NASA-CASE-XNP-05231				US-PATENT-CLASS-324-79D				US-PATENT-CLASS-60-39.66
				US-PATENT-APPL-SN-524746				US-PATENT-CLASS-328-129				US-PATENT-CLASS-60-39.72
				US-PATENT-CLASS-250-51.5				US-PATENT-CLASS-328-134				US-PATENT-CLASS-60-39.74R
				US-PATENT-3,440,419				US-PATENT-CLASS-328-48				US-PATENT-3,748,853
N73-28515*	c 15			NASA-CASE-LEW-10533-1				US-PATENT-3,745,475		N73-30666*	c 23	NASA-CASE-GSC-11296-1
				US-PATENT-APPL-SN-134658				NASA-CASE-NPO-11291-1				US-PATENT-APPL-SN-228190
				US-PATENT-CLASS-219-107	N73-30388*	c 14		US-PATENT-APPL-SN-116790				US-PATENT-CLASS-350-162SF
				US-PATENT-CLASS-219-62				US-PATENT-CLASS-324-29.5				US-PATENT-CLASS-350-55
				US-PATENT-CLASS-27-498				US-PATENT-CLASS-324-57R				US-PATENT-3,752,664
				US-PATENT-CLASS-29-497.5				US-PATENT-CLASS-324-62R		N73-30829*	c 31	NASA-CASE-GSC-11018-1
				US-PATENT-3,745,300				US-PATENT-CLASS-324-95				US-PATENT-APPL-SN-244523
N73-28516*	c 15			NASA-CASE-XNP-01187				US-PATENT-3,750,016				US-PATENT-CLASS-165-105
				US-PATENT-APPL-SN-155598	N73-30389*	c 14		NASA-CASE-MFS-20546-2				US-PATENT-CLASS-165-32

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		US-PATENT-3,748,722			US-PATENT-CLASS-178-6.6DD			US-PATENT-CLASS-317-234R
N73-33397*	c 16	NASA-CASE-ARC-10444-1			US-PATENT-CLASS-179-100.2MD			US-PATENT-3,778,685
		US-PATENT-APPL-SN-167719			US-PATENT-CLASS-179-100.2T		N74-13011*	c 46
		US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-340-174.1L			NASA-CASE-MSC-12408-1
		US-PATENT-CLASS-350-285			US-PATENT-3,770,903			US-PATENT-APPL-SN-229916
		US-PATENT-CLASS-356-138	N74-11284*	c 35	NASA-CASE-NPO-11919-1			US-PATENT-CLASS-423-579
		US-PATENT-CLASS-356-148			US-PATENT-APPL-SN-237694		N74-13129*	c 35
		US-PATENT-CLASS-356-153			US-PATENT-CLASS-250-343			NASA-CASE-FRC-10051-1
		US-PATENT-CLASS-356-172			US-PATENT-3,766,380			US-PATENT-APPL-SN-253725
		US-PATENT-3,764,220	N74-11300*	c 37	NASA-CASE-LEW-10533-2			US-PATENT-CLASS-254-93R
N74-10034*	c 02	NASA-CASE-LAR-10776-1			US-PATENT-APPL-SN-247055		N74-13130*	c 91
		US-PATENT-APPL-SN-211332			US-PATENT-CLASS-219-101			NASA-CASE-NPO-12127-1
		US-PATENT-CLASS-244-145			US-PATENT-CLASS-219-107			US-PATENT-APPL-SN-106106
		US-PATENT-3,764,097			US-PATENT-CLASS-219-78			US-PATENT-CLASS-250-219DF
N74-10132*	c 32	NASA-CASE-NPO-11302-2			US-PATENT-CLASS-29-497.5			US-PATENT-CLASS-250-83CD
		US-PATENT-APPL-SN-266822			US-PATENT-3,770,933		N74-13131*	c 39
		US-PATENT-APPL-SN-70967	N74-11301*	c 37	NASA-CASE-LAR-10170-1			NASA-CASE-MFS-20730-1
		US-PATENT-CLASS-178-69.4R			US-PATENT-APPL-SN-217213			US-PATENT-APPL-SN-182977
		US-PATENT-3,766,315			US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-269-48.1
N74-10194*	c 33	NASA-CASE-NPO-11962-1			US-PATENT-CLASS-29-460			US-PATENT-CLASS-83-452
		US-PATENT-APPL-SN-292681			US-PATENT-CLASS-29-498			US-PATENT-CLASS-83-602
		US-PATENT-CLASS-331-1A			US-PATENT-CLASS-29-503			US-PATENT-CLASS-83-917
		US-PATENT-CLASS-331-14			US-PATENT-CLASS-29-527.2		N74-13132*	c 35
		US-PATENT-CLASS-331-17			US-PATENT-3,769,689			NASA-CASE-LAR-10910-1
		US-PATENT-CLASS-331-178	N74-11313*	c 36	NASA-CASE-HQN-10790-1			US-PATENT-APPL-SN-239577
		US-PATENT-CLASS-331-18			US-PATENT-APPL-SN-235962			US-PATENT-CLASS-73-4R
		US-PATENT-CLASS-331-4			US-PATENT-CLASS-333-83R			US-PATENT-CLASS-73-420
		US-PATENT-3,764,933			US-PATENT-CLASS-333-97R			US-PATENT-3,777,546
N74-10195*	c 33	NASA-CASE-LEW-11617-1	N74-12778*	c 52	NASA-CASE-MFS-20284-1		N74-13177*	c 31
		US-PATENT-APPL-SN-266832			US-PATENT-APPL-SN-242027			NASA-CASE-LAR-10547-1
		US-PATENT-CLASS-315-5.35			US-PATENT-CLASS-128-2.05T			US-PATENT-APPL-SN-193980
		US-PATENT-CLASS-315-5.38			US-PATENT-CLASS-128-2.06F			US-PATENT-CLASS-264-294
		US-PATENT-3,764,850			US-PATENT-CLASS-324-186		N74-13178*	c 37
N74-10223*	c 33	NASA-CASE-LAR-10730-1			US-PATENT-CLASS-324-78D			NASA-CASE-LAR-10544-1
		US-PATENT-APPL-SN-239573			US-PATENT-CLASS-324-78D			US-PATENT-APPL-SN-188928
		US-PATENT-CLASS-235-150.3			US-PATENT-3,773,038			US-PATENT-CLASS-222-193
		US-PATENT-CLASS-235-92CA	N74-12779*	c 54	NASA-CASE-MFS-21115-1			US-PATENT-3,776,432
		US-PATENT-CLASS-235-92DM			US-PATENT-APPL-SN-266930		N74-13179*	c 37
		US-PATENT-CLASS-307-225R			US-PATENT-CLASS-222-309			NASA-CASE-LEW-10805-2
		US-PATENT-CLASS-328-48			US-PATENT-CLASS-222-340			US-PATENT-APPL-SN-233743
		US-PATENT-3,764,790			US-PATENT-CLASS-222-387			US-PATENT-APPL-SN-29917
N74-10415*	c 35	NASA-CASE-MFS-20335-1			US-PATENT-CLASS-222-514			US-PATENT-CLASS-29-182
		US-PATENT-APPL-SN-238263			US-PATENT-3,777,942			US-PATENT-CLASS-29-420.5
		US-PATENT-CLASS-73-67.8S	N74-12812*	c 27	NASA-CASE-ARC-10464-1			US-PATENT-CLASS-75-200
		US-PATENT-3,765,229			US-PATENT-APPL-SN-198472			US-PATENT-CLASS-75-213
N74-10474*	c 37	NASA-CASE-LEW-10326-3			US-PATENT-CLASS-260-2.5AM			US-PATENT-CLASS-75-214
		US-PATENT-APPL-SN-99901			US-PATENT-CLASS-272.216			US-PATENT-CLASS-75-226
		US-PATENT-CLASS-277-25	N74-12813*	c 25	NASA-CASE-LAR-10551-1		N74-13205*	c 36
		US-PATENT-CLASS-277-27			US-PATENT-APPL-SN-191301			NASA-CASE-NPO-11317-2
		US-PATENT-CLASS-277-96			US-PATENT-CLASS-128-191R			US-PATENT-APPL-SN-187143
		US-PATENT-3,767,212			US-PATENT-CLASS-23-252R			US-PATENT-APPL-SN-34989
N74-10521*	c 26	NASA-CASE-LEW-10805-3			US-PATENT-CLASS-23-281			US-PATENT-CLASS-179-100.2CH
		US-PATENT-APPL-SN-266928			US-PATENT-CLASS-23-288F			US-PATENT-CLASS-250-205
		US-PATENT-APPL-SN-29917			US-PATENT-CLASS-23-288J			US-PATENT-CLASS-250-217
		US-PATENT-CLASS-148-126			US-PATENT-CLASS-423-231			US-PATENT-CLASS-340-174.1M
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-55-510			US-PATENT-CLASS-340-174YC
		US-PATENT-CLASS-75-200			US-PATENT-CLASS-55-518			US-PATENT-CLASS-350-151
		US-PATENT-CLASS-75-226			US-PATENT-3,771,959			US-PATENT-3,778,791
		US-PATENT-3,765,958	N74-12814*	c 27	NASA-CASE-ARC-10180-1		N74-13270*	c 27
N74-10907*	c 05	NASA-CASE-XMF-02263			US-PATENT-APPL-SN-136253			NASA-CASE-LEW-11262-1
		US-PATENT-APPL-SN-78766			US-PATENT-CLASS-260-2.5L			US-PATENT-APPL-SN-136008
		US-PATENT-CLASS-D71-1			US-PATENT-3,772,220			US-PATENT-CLASS-204-192
		US-PATENT-DES-228,688	N74-12887*	c 33	NASA-CASE-NPO-11905-1		N74-13420*	c 04
N74-10942*	c 08	NASA-CASE-MSC-12394-1			US-PATENT-APPL-SN-290030			NASA-CASE-FRC-10049-1
		US-PATENT-APPL-SN-341662			US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-232021
		US-PATENT-CLASS-244-83			US-PATENT-CLASS-325-320			US-PATENT-CLASS-235-150.27
		US-PATENT-CLASS-318-580			US-PATENT-CLASS-329-104			US-PATENT-CLASS-235-150.26
		US-PATENT-CLASS-318-628			US-PATENT-CLASS-329-122			US-PATENT-CLASS-244-77A
		US-PATENT-3,771,037			US-PATENT-CLASS-329-126			US-PATENT-CLASS-343-108R
N74-10975*	c 52	NASA-CASE-MSC-13972-1			US-PATENT-3,772,272		N74-13436*	c 70
		US-PATENT-APPL-SN-200040	N74-12888*	c 60	NASA-CASE-MSC-14053-1			NASA-CASE-LAR-10385-2
		US-PATENT-CLASS-128-2S			US-PATENT-APPL-SN-266899			US-PATENT-APPL-SN-239803
		US-PATENT-CLASS-73-149			US-PATENT-CLASS-328-123			US-PATENT-APPL-SN-38816
		US-PATENT-3,769,834			US-PATENT-CLASS-340-173CR			US-PATENT-CLASS-117-106A
N74-11000*	c 32	NASA-CASE-NPO-13171-1			US-PATENT-CLASS-340-173LM			US-PATENT-CLASS-117-33.3
		US-PATENT-APPL-SN-290915			US-PATENT-3,778,786			US-PATENT-3,779,788
		US-PATENT-CLASS-343-781	N74-12912*	c 32	NASA-CASE-NPO-11850-1		N74-13502*	c 20
		US-PATENT-CLASS-343-909			US-PATENT-APPL-SN-186700			NASA-CASE-LEW-11058-1
		US-PATENT-3,769,623			US-PATENT-CLASS-343-18B			US-PATENT-APPL-SN-233519
N74-11049*	c 33	NASA-CASE-HQN-10792-1			US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-60-258
		US-PATENT-APPL-SN-245063			US-PATENT-CLASS-343-6.5SS			US-PATENT-CLASS-60-259
		US-PATENT-CLASS-321-18			US-PATENT-3,772,691			US-PATENT-3,777,490
		US-PATENT-CLASS-321-2	N74-12913*	c 33	NASA-CASE-LEW-11162-1		N74-14133*	c 31
		US-PATENT-CLASS-321-45S			US-PATENT-APPL-SN-143508			NASA-CASE-LAR-10782-1
		US-PATENT-CLASS-323-DIG.1			US-PATENT-CLASS-313-153			US-PATENT-APPL-SN-197689
		US-PATENT-CLASS-331-113A			US-PATENT-CLASS-313-209			US-PATENT-CLASS-264-102
		US-PATENT-CLASS-331-62			US-PATENT-CLASS-313-217			US-PATENT-3,780,151
		US-PATENT-3,771,040			US-PATENT-CLASS-313-224		N74-14784*	c 44
N74-11050*	c 33	NASA-CASE-LAR-10868-1			US-PATENT-CLASS-313-32			NASA-CASE-LEW-11069-1
		US-PATENT-APPL-SN-253249			US-PATENT-3,777,200			US-PATENT-APPL-SN-83816
		US-PATENT-CLASS-137-819	N74-12951*	c 33	NASA-CASE-MFS-21374-1			US-PATENT-CLASS-136-89
		US-PATENT-CLASS-137-833			US-PATENT-APPL-SN-238047			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-137-840			US-PATENT-CLASS-317-234E			US-PATENT-CLASS-29-588
		US-PATENT-3,770,021			US-PATENT-CLASS-317-234F		N74-14845*	c 54
N74-11283*	c 35	NASA-CASE-NPO-11659-1			US-PATENT-CLASS-317-234M			NASA-CASE-LAR-10241-1
		US-PATENT-APPL-SN-228189			US-PATENT-CLASS-317-234N			US-PATENT-APPL-SN-193672
								US-PATENT-CLASS-9-11A
								US-PATENT-3,781,933
							N74-14920*	c 62
								NASA-CASE-MSC-13932-1
								US-PATENT-APPL-SN-229354

N74-14935*	c 33	US-PATENT-CLASS-235-153AK	N74-15145*	c 36	US-PATENT-CLASS-73-67.8S	N74-17955*	c 09	US-PATENT-APPL-SN-201700
		US-PATENT-3,783,250			US-PATENT-3,777,552			US-PATENT-CLASS-324-102
N74-14939*	c 33	NASA-CASE-MFS-21462-1	N74-15146*	c 35	NASA-CASE-NPO-11856-1	N74-18088*	c 35	US-PATENT-CLASS-324-118
		US-PATENT-APPL-SN-239576			US-PATENT-APPL-SN-235268			US-PATENT-CLASS-329-50
N74-14956*	c 33	US-PATENT-CLASS-219-477	N74-15395*	c 38	US-PATENT-CLASS-250-217SS	N74-18089*	c 31	US-PATENT-CLASS-3,795,862
		US-PATENT-CLASS-219-539			US-PATENT-CLASS-331-94.5K			NASA-CASE-LAR-10812-1
N74-15089*	c 19	US-PATENT-CLASS-338-320	N74-15453*	c 07	US-PATENT-CLASS-331-94.5S	N74-18123*	c 37	US-PATENT-APPL-SN-263815
		US-PATENT-3,732,397			US-PATENT-CLASS-350-6			US-PATENT-CLASS-73-147
N74-15090*	c 35	NASA-CASE-FRC-10072-1	N74-15652*	c 34	US-PATENT-CLASS-356-152	N74-18125*	c 37	US-PATENT-3,791,207
		US-PATENT-APPL-SN-162100			US-PATENT-CLASS-356-4			NASA-CASE-LAR-11027-1
N74-15091*	c 35	US-PATENT-CLASS-330-10	N74-15778*	c 51	US-PATENT-CLASS-356-5	N74-18126*	c 37	US-PATENT-APPL-SN-275118
		US-PATENT-CLASS-330-35			US-PATENT-3,781,111			US-PATENT-CLASS-250-338
N74-15092*	c 35	US-PATENT-CLASS-330-9	N74-15831*	c 35	NASA-CASE-MFS-21455-1	N74-18127*	c 37	US-PATENT-CLASS-250-370
		US-PATENT-3,783,399			US-PATENT-APPL-SN-281877			US-PATENT-CLASS-250-371
N74-15093*	c 35	NASA-CASE-MSC-17832-1	N74-16135*	c 35	US-PATENT-CLASS-350-3.5	N74-18128*	c 37	US-PATENT-3,790,795
		US-PATENT-APPL-SN-293727			US-PATENT-CLASS-356-106			NASA-CASE-LAR-10318-1
N74-15094*	c 35	US-PATENT-CLASS-307-127	N74-17153*	c 35	US-PATENT-CLASS-73-71.3	N74-18323*	c 35	US-PATENT-APPL-SN-224489
		US-PATENT-CLASS-317-33SC			US-PATENT-3,782,825			US-PATENT-CLASS-156-245
N74-15125*	c 37	US-PATENT-CLASS-317-43	N74-17283*	c 27	NASA-CASE-MFS-21233-1	N74-18551*	c 25	US-PATENT-CLASS-156-247
		US-PATENT-CLASS-317-46			US-PATENT-APPL-SN-246056			US-PATENT-CLASS-156-285
N74-15126*	c 35	US-PATENT-CLASS-317-47	N74-17853*	c 54	US-PATENT-CLASS-324-40	N74-18552*	c 34	US-PATENT-CLASS-156-309
		US-PATENT-CLASS-317-48			US-PATENT-CLASS-73-67.5R			US-PATENT-3,793,109
N74-15128*	c 37	US-PATENT-3,783,354	N74-17885*	c 35	US-PATENT-CLASS-73-71.5U	N74-19310*	c 72	NASA-CASE-NPO-13160-1
		NASA-CASE-LAR-10586-1			US-PATENT-3,782,177			US-PATENT-APPL-SN-359157
N74-15130*	c 38	US-PATENT-APPL-SN-289049	N74-17927*	c 33	NASA-CASE-LEW-11569-1	N74-19528*	c 09	US-PATENT-CLASS-321-8R
		US-PATENT-CLASS-102-70.2R			US-PATENT-APPL-SN-316618			US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-244-15A			US-PATENT-CLASS-181-43			US-PATENT-3,795,858
		US-PATENT-CLASS-244-3.16			US-PATENT-3,780,827			NASA-CASE-LAR-10634-1
		US-PATENT-CLASS-250-203R			NASA-CASE-LAR-10105-1			US-PATENT-APPL-SN-214084
		US-PATENT-CLASS-250-237R			US-PATENT-APPL-SN-170680			US-PATENT-CLASS-23-253PC
		US-PATENT-3,780,966			US-PATENT-CLASS-73-86			US-PATENT-CLASS-23-259
		NASA-CASE-NPO-11432-2			US-PATENT-3,782,181			US-PATENT-CLASS-259-72
		US-PATENT-APPL-SN-258152			NASA-CASE-ARC-10302-1			US-PATENT-CLASS-312-209
		US-PATENT-APPL-SN-88435			US-PATENT-APPL-SN-203271			US-PATENT-CLASS-356-197
		US-PATENT-CLASS-250-211J			US-PATENT-CLASS-119-51.13			US-PATENT-CLASS-356-85
		US-PATENT-CLASS-250-214			US-PATENT-CLASS-119-51.5			US-PATENT-3,790,347
		US-PATENT-CLASS-317-235N			US-PATENT-CLASS-119-51R			NASA-CASE-LAR-10489-1
		US-PATENT-3,781,549			US-PATENT-CLASS-119-52AF			US-PATENT-APPL-SN-198763
		NASA-CASE-LAR-11155-1			US-PATENT-CLASS-119-54			US-PATENT-CLASS-264-102
		US-PATENT-APPL-SN-313381			US-PATENT-CLASS-221-265			US-PATENT-3,790,650
		US-PATENT-CLASS-250-360			US-PATENT-3,782,334			NASA-CASE-MFS-21309-1
		US-PATENT-CLASS-250-361			NASA-CASE-GSC-11553-1			US-PATENT-APPL-SN-244519
		US-PATENT-CLASS-250-369			US-PATENT-APPL-SN-177985			US-PATENT-CLASS-180-79.3
		US-PATENT-CLASS-250-492			US-PATENT-CLASS-178-6.7R			US-PATENT-CLASS-301-5P
		US-PATENT-3,781,562			US-PATENT-CLASS-219-216			US-PATENT-3,789,947
		NASA-CASE-LAR-10862-1			US-PATENT-CLASS-219-388			NASA-CASE-MFS-21364-1
		US-PATENT-APPL-SN-271951			US-PATENT-CLASS-34-162			US-PATENT-APPL-SN-214006
		US-PATENT-CLASS-73-4V			US-PATENT-CLASS-346-108			US-PATENT-CLASS-156-331
		US-PATENT-3,780,563			US-PATENT-CLASS-346-138			US-PATENT-CLASS-161-182
		NASA-CASE-ARC-10442-1			US-PATENT-CLASS-346-24			US-PATENT-CLASS-161-192
		US-PATENT-APPL-SN-280032			US-PATENT-CLASS-95-89R			US-PATENT-CLASS-161-42
		US-PATENT-CLASS-165-109			US-PATENT-3,781,902			US-PATENT-CLASS-161-43
		US-PATENT-CLASS-165-2			NASA-CASE-LAR-10595-1			US-PATENT-CLASS-161-93
		US-PATENT-CLASS-259-DIG.18			US-PATENT-APPL-SN-273240			US-PATENT-CLASS-260-2R
		US-PATENT-CLASS-259-60			US-PATENT-CLASS-340-12R			US-PATENT-CLASS-260-2R
		US-PATENT-CLASS-62-45			US-PATENT-CLASS-340-5F			US-PATENT-CLASS-264-135
		US-PATENT-3,782,698			US-PATENT-CLASS-340-8R			US-PATENT-CLASS-264-136
		NASA-CASE-NPO-13044-1			US-PATENT-3,783,443			US-PATENT-CLASS-264-257
		US-PATENT-APPL-SN-305012			NASA-CASE-MFS-21087-1			US-PATENT-3,790,432
		US-PATENT-CLASS-73-497			US-PATENT-APPL-SN-149283			NASA-CASE-MFS-21481-1
		US-PATENT-CLASS-73-517B			US-PATENT-CLASS-350-3.5			US-PATENT-APPL-SN-266771
		US-PATENT-CLASS-74-5.6			US-PATENT-3,752,556			US-PATENT-CLASS-128-25R
		US-PATENT-3,782,205			NASA-CASE-MFS-20486-2			US-PATENT-CLASS-272-73
		NASA-CASE-MSC-14096-1			US-PATENT-APPL-SN-292382			US-PATENT-CLASS-272-80
		US-PATENT-APPL-SN-242662			US-PATENT-APPL-SN-84212			US-PATENT-CLASS-74-594.6
		US-PATENT-CLASS-350-236			US-PATENT-CLASS-260-29.6S			US-PATENT-CLASS-74-594.7
		US-PATENT-CLASS-350-285			US-PATENT-3,784,499			US-PATENT-3,788,163
		US-PATENT-CLASS-350-7			NASA-CASE-MFS-21163-1			NASA-CASE-LEW-11387-1
		US-PATENT-CLASS-356-216			US-PATENT-APPL-SN-266925			US-PATENT-APPL-SN-247090
		US-PATENT-CLASS-356-43			US-PATENT-CLASS-222-324			US-PATENT-CLASS-29-482
		US-PATENT-3,782,835			US-PATENT-CLASS-224-444			US-PATENT-CLASS-29-488
		NASA-CASE-XLE-10326-4			US-PATENT-3,790,037			US-PATENT-CLASS-29-497
		US-PATENT-APPL-SN-220251			NASA-CASE-MSC-13855-1			US-PATENT-CLASS-29-498
		US-PATENT-APPL-SN-54540			US-PATENT-APPL-SN-196931			US-PATENT-3,787,959
		US-PATENT-APPL-SN-723465			US-PATENT-CLASS-325-38B			NASA-CASE-MFS-21136-1
		US-PATENT-CLASS-277-27			US-PATENT-CLASS-332-11D			US-PATENT-APPL-SN-262430
		US-PATENT-CLASS-277-91			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-308-10
		US-PATENT-3,782,737			US-PATENT-3,795,900			US-PATENT-CLASS-74-5.7
		NASA-CASE-ARC-10441-1			NASA-CASE-NPO-13138-1			US-PATENT-3,763,708
		US-PATENT-APPL-SN-280029			US-PATENT-APPL-SN-335201			NASA-CASE-LAR-11053-1
		US-PATENT-CLASS-259-98			US-PATENT-CLASS-328-155			US-PATENT-APPL-SN-281875
		US-PATENT-CLASS-417-470			US-PATENT-CLASS-333-16			US-PATENT-CLASS-73-15R
		US-PATENT-CLASS-417-471			US-PATENT-CLASS-333-18			US-PATENT-3,789,654
		US-PATENT-3,782,699			US-PATENT-3,790,906			NASA-CASE-NPO-11120-1
		NASA-CASE-NPO-11682-1			NASA-CASE-NPO-11966-1			US-PATENT-APPL-SN-39343
		US-PATENT-APPL-SN-187365			NASA-CASE-NPO-13159-1			US-PATENT-CLASS-165-105
		US-PATENT-CLASS-23-284			US-PATENT-APPL-SN-284245			US-PATENT-CLASS-267-166
		US-PATENT-3,782,904			US-PATENT-CLASS-100-8			US-PATENT-CLASS-29-157.3R
		NASA-CASE-LEW-11087-2			US-PATENT-CLASS-336-210			US-PATENT-3,789,920
		US-PATENT-APPL-SN-201904			US-PATENT-3,792,399			NASA-CASE-HQN-10740-1
		US-PATENT-APPL-SN-280390			NASA-CASE-ARC-10197-1			US-PATENT-APPL-SN-266943
		US-PATENT-CLASS-29-148.4A			US-PATENT-APPL-SN-310624			US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-29-148.4B			US-PATENT-CLASS-317-16			US-PATENT-CLASS-356-112
		US-PATENT-3,781,958			US-PATENT-CLASS-317-31			US-PATENT-CLASS-356-28
		NASA-CASE-MFS-20767-1			US-PATENT-3,795,840			US-PATENT-3,795,448
		US-PATENT-APPL-SN-196898			NASA-CASE-NUC-10107-1			NASA-CASE-LAR-10426-1
								US-PATENT-APPL-SN-239575

		US-PATENT-CLASS-73-15.6	N74-20813*	c 32	NASA-CASE-FRC-10071-1		US-PATENT-3,797,098
		US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-307727	N74-21058*	c 37
		US-PATENT-3,795,134			US-PATENT-CLASS-178-7.7		US-PATENT-APPL-SN-382262
N74-19692*	c 44	NASA-CASE-GSC-11367-1			US-PATENT-CLASS-235-164		US-PATENT-CLASS-260-448.2N
		US-PATENT-APPL-SN-236985			US-PATENT-CLASS-315-22		US-PATENT-3,801,617
		US-PATENT-CLASS-136-36			US-PATENT-3,803,445	N74-21059*	c 31
		US-PATENT-3,759,747	N74-20836*	c 60	NASA-CASE-ERC-10180-1		NASA-CASE-LAR-10409-1
					US-PATENT-APPL-SN-838278		US-PATENT-APPL-SN-340864
N74-19693*	c 44	NASA-CASE-NPO-11806-1			US-PATENT-CLASS-235-164		US-PATENT-CLASS-29-423
		US-PATENT-APPL-SN-228163			US-PATENT-CLASS-3,803,393	N74-21060*	c 37
		US-PATENT-CLASS-136-20			US-PATENT-CLASS-XLE-2529-3		NASA-CASE-NPO-13105-1
		US-PATENT-CLASS-136-30	N74-20859*	c 33	NASA-CASE-XLE-2529-3		US-PATENT-APPL-SN-283502
		US-PATENT-3,790,409			US-PATENT-APPL-SN-288856		US-PATENT-CLASS-60-25
N74-19769*	c 24	NASA-CASE-ERC-10073-1			US-PATENT-APPL-SN-487929		US-PATENT-3,798,896
		US-PATENT-APPL-SN-856253			US-PATENT-APPL-SN-848403	N74-21061*	c 37
		US-PATENT-CLASS-117-95			US-PATENT-CLASS-315-211		NASA-CASE-LEW-11076-1
		US-PATENT-3,796,592			US-PATENT-CLASS-315-228		US-PATENT-APPL-SN-238264
N74-19788*	c 32	NASA-CASE-NPO-11820-1			US-PATENT-CLASS-331-94.5D		US-PATENT-CLASS-308-73
		US-PATENT-APPL-SN-266912			US-PATENT-CLASS-332-7.51	N74-21062*	c 35
		US-PATENT-CLASS-307-237			US-PATENT-3,806,835		NASA-CASE-LAR-10295-1
		US-PATENT-CLASS-328-160	N74-20860*	c 33	NASA-CASE-GSC-11446-1		US-PATENT-APPL-SN-221685
		US-PATENT-CLASS-328-168			US-PATENT-APPL-SN-263230		US-PATENT-CLASS-73-12
		US-PATENT-CLASS-328-172			US-PATENT-CLASS-343-DIG.2		US-PATENT-CLASS-73-432
		US-PATENT-CLASS-333-14			US-PATENT-CLASS-343-100SA		US-PATENT-3,805,622
		US-PATENT-3,800,237			US-PATENT-CLASS-343-100ST	N74-21063*	c 37
N74-19790*	c 32	NASA-CASE-MFS-21540-1			US-PATENT-CLASS-343-854		NASA-CASE-LEW-10698-1
		US-PATENT-APPL-SN-333912			US-PATENT-3,806,932		US-PATENT-APPL-SN-30498
		US-PATENT-CLASS-178-7.1	N74-20861*	c 33	NASA-CASE-GSC-11560-1		US-PATENT-CLASS-106-52
		US-PATENT-CLASS-325-148			US-PATENT-APPL-SN-361906		US-PATENT-CLASS-117-129
		US-PATENT-3,800,224			US-PATENT-CLASS-350-269		US-PATENT-CLASS-161-196
N74-19870*	c 44	NASA-CASE-MFS-21470-1			US-PATENT-CLASS-354-234	N74-21064*	c 37
		US-PATENT-APPL-SN-340871			US-PATENT-CLASS-95-53EA		NASA-CASE-LEW-11087-3
		US-PATENT-CLASS-325-62			US-PATENT-3,804,506		US-PATENT-APPL-SN-201904
		US-PATENT-CLASS-333-17	N74-20862*	c 33	NASA-CASE-GSC-11513-1		US-PATENT-APPL-SN-346361
		US-PATENT-CLASS-343-17.7			US-PATENT-APPL-SN-315069		US-PATENT-CLASS-308-188
		US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-331-108A		US-PATENT-CLASS-308-191
		US-PATENT-3,795,910			US-PATENT-CLASS-331-115	N74-21065*	c 37
N74-20008*	c 74	NASA-CASE-GSC-11188-3			US-PATENT-CLASS-331-116R		NASA-CASE-NPO-11951-1
		US-PATENT-APPL-SN-244566			US-PATENT-CLASS-331-159		US-PATENT-APPL-SN-287150
		US-PATENT-APPL-SN-80029			US-PATENT-3,806,831		US-PATENT-CLASS-137-628
		US-PATENT-CLASS-117-45	N74-20863*	c 32	NASA-CASE-GSC-11909		US-PATENT-CLASS-251-120
		US-PATENT-3,799,793			US-PATENT-APPL-SN-244158		US-PATENT-CLASS-251-122
N74-20009*	c 36	NASA-CASE-NPO-11861-1			US-PATENT-CLASS-343-730		US-PATENT-CLASS-251-210
		US-PATENT-APPL-SN-266911			US-PATENT-CLASS-343-786	N74-21091*	c 36
		US-PATENT-CLASS-178-DIG.1			US-PATENT-CLASS-343-797		NASA-CASE-GSC-11262-1
		US-PATENT-CLASS-178-6			US-PATENT-CLASS-343-853		US-PATENT-APPL-SN-162380
		US-PATENT-CLASS-178-7.6			US-PATENT-3,803,617		US-PATENT-CLASS-250-204
		US-PATENT-3,800,074	N74-20864*	c 32	NASA-CASE-GSC-11428-1		US-PATENT-CLASS-33-285
N74-20063*	c 37	NASA-CASE-LAR-10129-2			US-PATENT-APPL-SN-292685		US-PATENT-CLASS-356-141
		US-PATENT-APPL-SN-319410			US-PATENT-CLASS-343-708		US-PATENT-CLASS-356-152
		US-PATENT-APPL-SN-99201			US-PATENT-CLASS-343-769		US-PATENT-CLASS-356-172
		US-PATENT-CLASS-312-1			US-PATENT-CLASS-343-853		US-PATENT-3,804,525
		US-PATENT-3,796,473			US-PATENT-3,805,266	N74-21156*	c 27
N74-20329*	c 76	NASA-CASE-GSC-11425-1	N74-21014*	c 71	NASA-CASE-HQN-10832-1		NASA-CASE-ARC-10592-1
		US-PATENT-APPL-SN-206266			US-PATENT-APPL-SN-301417		US-PATENT-APPL-SN-321179
		US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-178-DIG.32		US-PATENT-CLASS-260.46.5E
		US-PATENT-3,799,813			US-PATENT-CLASS-178-5.8R	N74-21300*	c 70
N74-20646*	c 02	NASA-CASE-LEW-11188-1			US-PATENT-CLASS-178-7.2		US-PATENT-3,803,090
		US-PATENT-APPL-SN-152328			US-PATENT-CLASS-340-407		NASA-CASE-ARC-10516-1
		US-PATENT-CLASS-137-15.1			US-PATENT-CLASS-35-35A		US-PATENT-APPL-SN-267768
		US-PATENT-CLASS-137-15.2			US-PATENT-3,800,082		US-PATENT-CLASS-350-270
		US-PATENT-CLASS-244-53B			NASA-CASE-LAR-10626-1	N74-21304*	c 74
		US-PATENT-3,799,475	N74-21015*	c 19	US-PATENT-APPL-SN-202750		US-PATENT-CLASS-250-231SE
N74-20725*	c 54	NASA-CASE-MFS-22102-1			US-PATENT-CLASS-33-1SA		US-PATENT-CLASS-350-299
		US-PATENT-APPL-SN-341621			US-PATENT-CLASS-33-46R		US-PATENT-CLASS-356-152
		US-PATENT-CLASS-4-10			US-PATENT-3,798,778		US-PATENT-3,802,779
		US-PATENT-CLASS-4-120	N74-21017*	c 35	NASA-CASE-MFS-21660-1	N74-21850*	c 33
		US-PATENT-3,805,303			US-PATENT-APPL-SN-310616		NASA-CASE-GSC-11602-1
N74-20726*	c 52	NASA-CASE-ARC-10597-1			US-PATENT-CLASS-324-83Q		US-PATENT-APPL-SN-298157
		US-PATENT-APPL-SN-281876			US-PATENT-3,806,802		US-PATENT-CLASS-315-10
		US-PATENT-CLASS-128-2V	N74-21018*	c 35	NASA-CASE-LEW-10981-1		US-PATENT-CLASS-315-11
		US-PATENT-CLASS-73-67.9			US-PATENT-APPL-SN-214089		US-PATENT-CLASS-315-12
		US-PATENT-3,802,253			US-PATENT-CLASS-310-11		US-PATENT-3,806,756
N74-20728*	c 52	NASA-CASE-MFS-21415-1			US-PATENT-CLASS-324-34FL	N74-21851*	c 33
		US-PATENT-APPL-SN-318152			US-PATENT-CLASS-73-194EM		NASA-CASE-ARC-10596-1
		US-PATENT-CLASS-128-2.07			US-PATENT-3,802,262		US-PATENT-APPL-SN-267862
		US-PATENT-CLASS-128-2.08	N74-21019*	c 35	NASA-CASE-GSC-11600-1		US-PATENT-CLASS-330-28
		US-PATENT-CLASS-73-23			US-PATENT-APPL-SN-318357		US-PATENT-CLASS-330-59
		US-PATENT-CLASS-73-421.5R			US-PATENT-CLASS-73-1F	N74-22095*	c 35
		US-PATENT-3,799,149			US-PATENT-3,802,249		US-PATENT-APPL-SN-828920
N74-20809*	c 32	NASA-CASE-MSC-12462-1	N74-21055*	c 37	NASA-CASE-LEW-11388-2		US-PATENT-CLASS-73-190H
		US-PATENT-APPL-SN-274360			US-PATENT-APPL-SN-289033		US-PATENT-3,648,516
		US-PATENT-CLASS-178-88			US-PATENT-APPL-SN-293726	N74-22096*	c 32
		US-PATENT-CLASS-325-320			US-PATENT-CLASS-29-487		NASA-CASE-XLE-04791
		US-PATENT-CLASS-325-423			US-PATENT-CLASS-29-494		US-PATENT-APPL-SN-582213
		US-PATENT-3,800,227			US-PATENT-CLASS-29-498		US-PATENT-CLASS-330-103
N74-20810*	c 32	NASA-CASE-MSC-12494-1			US-PATENT-CLASS-29-504		US-PATENT-3,404,348
		US-PATENT-APPL-SN-304705			US-PATENT-3,798,748	N74-22136*	c 18
		US-PATENT-CLASS-325-321	N74-21056*	c 37	NASA-CASE-LAR-10688-1		NASA-CASE-MFS-20922-1
		US-PATENT-CLASS-325-419			US-PATENT-APPL-SN-285705		US-PATENT-APPL-SN-220274
		US-PATENT-3,806,816			US-PATENT-CLASS-235-151		US-PATENT-CLASS-244-1SS
N74-20811*	c 32	NASA-CASE-NPO-13103-1			US-PATENT-CLASS-235-92PE		US-PATENT-CLASS-49-68
		US-PATENT-APPL-SN-338484			US-PATENT-CLASS-235-92SB		US-PATENT-CLASS-61-83
		US-PATENT-CLASS-325-320			US-PATENT-3,800,253	N74-22771*	c 52
		US-PATENT-CLASS-325-419			NASA-CASE-LAR-10941-1		NASA-CASE-ARC-10447-1
		US-PATENT-CLASS-329-122	N74-21057*	c 37	US-PATENT-APPL-SN-269048		US-PATENT-APPL-SN-311175
		US-PATENT-3,806,815			US-PATENT-CLASS-29-470.1		US-PATENT-CLASS-128-214E
							US-PATENT-CLASS-235-151.3
							US-PATENT-3,809,871
						N74-22814*	c 33
							NASA-CASE-NPO-13081-1

			US-PATENT-APPL-SN-345372				US-PATENT-CLASS-178-67				US-PATENT-APPL-SN-326327
			US-PATENT-CLASS-307-215				US-PATENT-CLASS-325-30				US-PATENT-CLASS-136-182
			US-PATENT-CLASS-307-243				US-PATENT-3,816,657				US-PATENT-CLASS-324-29.5
			US-PATENT-CLASS-307-290				NASA-CASE-MFS-21698-1				US-PATENT-CLASS-324-72.5
			US-PATENT-CLASS-328-154				US-PATENT-APPL-SN-37050				US-PATENT-3,818,325
N74-22864*	c 33		US-PATENT-3,808,464		N74-26732*	c 33	US-PATENT-CLASS-331-109		N74-27566*	c 52	NASA-CASE-GSC-11531-1
			NASA-CASE-XER-11046-2				US-PATENT-CLASS-331-117R				US-PATENT-APPL-SN-291845
			US-PATENT-APPL-SN-810579				US-PATENT-CLASS-331-183				US-PATENT-CLASS-128-2.05E
			US-PATENT-APPL-SN-87597				US-PATENT-3,815,048				US-PATENT-CLASS-73-398AR
			US-PATENT-CLASS-321-45R		N74-26767*	c 73	NASA-CASE-NPO-13112-1		N74-27612*	c 32	US-PATENT-3,811,429
N74-22865*	c 33		US-PATENT-3,808,511				US-PATENT-APPL-SN-267572				NASA-CASE-MSC-14219-1
			NASA-CASE-LAR-10168-1				US-PATENT-CLASS-250-499				US-PATENT-APPL-SN-324029
			US-PATENT-APPL-SN-354407				US-PATENT-CLASS-313-61S				US-PATENT-CLASS-117-2R
			US-PATENT-CLASS-174-DIG.8				US-PATENT-3,816,785				US-PATENT-CLASS-156-9A
			US-PATENT-CLASS-174-69		N74-26945*	c 35	NASA-CASE-MFS-21556-1				US-PATENT-CLASS-179-100.2A
			US-PATENT-CLASS-174-70R				US-PATENT-APPL-SN-340791				US-PATENT-CLASS-179-100.2B
			US-PATENT-CLASS-244-151R				US-PATENT-CLASS-177-200				US-PATENT-CLASS-264-36
			US-PATENT-3,809,800				US-PATENT-CLASS-177-211				US-PATENT-3,819,440
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N75-12810*	c 76	NASA-CASE-LAR-11059-1 US-PATENT-APPL-SN-367294 US-PATENT-CLASS-73-32R US-PATENT-CLASS-73-432PS US-PATENT-3,842,656	N75-13625*	c 75	NASA-CASE-MFS-22145-1 US-PATENT-APPL-SN-367606 US-PATENT-CLASS-176-3 US-PATENT-CLASS-313-63 US-PATENT-CLASS-315-111 US-PATENT-CLASS-328-233 US-PATENT-3,854,097	N75-18310*	c 20	NASA-CASE-ARC-10637-1 US-PATENT-APPL-SN-352383 US-PATENT-CLASS-356-28 US-PATENT-3,860,342
N75-12930*	c 05	NASA-CASE-ARC-10456-1 US-PATENT-APPL-SN-237491 US-PATENT-CLASS-244-75R US-PATENT-CLASS-244-83R US-PATENT-CLASS-416-25 US-PATENT-CLASS-74-480R US-PATENT-3,850,388	N75-14834*	c 23	NASA-CASE-MSC-13530-2 US-PATENT-APPL-SN-18771 US-PATENT-APPL-SN-69488 US-PATENT-CLASS-106-13 US-PATENT-CLASS-106-15R US-PATENT-CLASS-106-2875B US-PATENT-CLASS-117-124F US-PATENT-CLASS-117-135.5 US-PATENT-CLASS-252-549 US-PATENT-CLASS-252-70 US-PATENT-3,856,534	N75-18477*	c 33	NASA-CASE-MFS-22129-1 US-PATENT-APPL-SN-370255 US-PATENT-CLASS-324-32 US-PATENT-CLASS-324-54 US-PATENT-3,866,114
N75-12968*	c 09	NASA-CASE-MFS-22039-1 US-PATENT-APPL-SN-386790 US-PATENT-CLASS-108-136 US-PATENT-3,853,075	N75-14844*	c 25	NASA-CASE-NPO-12130-1 US-PATENT-APPL-SN-750235 US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-253R US-PATENT-3,856,471	N75-18479*	c 33	NASA-CASE-MSC-14129-1 US-PATENT-APPL-SN-362146 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-235R US-PATENT-CLASS-307-267 US-PATENT-CLASS-328-115 US-PATENT-CLASS-328-151 US-PATENT-CLASS-328-58 US-PATENT-3,869,624
N75-12969*	c 09	NASA-CASE-ARC-10710-1 US-PATENT-APPL-SN-379019 US-PATENT-CLASS-73-147 US-PATENT-3,853,003	N75-14957*	c 33	NASA-CASE-MSC-14240-1 US-PATENT-APPL-SN-351929 US-PATENT-CLASS-307-205 US-PATENT-CLASS-307-208 US-PATENT-3,857,045	N75-18573*	c 37	NASA-CASE-NPO-13253-1 US-PATENT-APPL-SN-395687 US-PATENT-CLASS-248-358R US-PATENT-3,863,881
N75-13007*	c 15	NASA-CASE-GSC-11182-1 US-PATENT-APPL-SN-393527 US-PATENT-CLASS-325-4 US-PATENT-3,851,250	N75-15014*	c 35	NASA-CASE-LAR-11213-1 US-PATENT-APPL-SN-406715 US-PATENT-CLASS-250-201 US-PATENT-CLASS-356-4 US-PATENT-3,857,031	N75-18574*	c 37	NASA-CASE-GSC-11079-1 US-PATENT-APPL-SN-100637 US-PATENT-CLASS-308-10 US-PATENT-3,865,442
N75-13032*	c 24	NASA-CASE-LAR-10994-1 US-PATENT-APPL-SN-390466 US-PATENT-CLASS-29-420 US-PATENT-CLASS-29-604 US-PATENT-CLASS-340-174MA US-PATENT-CLASS-75-200 US-PATENT-3,849,877	N75-15028*	c 36	NASA-CASE-MFS-21244-1 US-PATENT-APPL-SN-350249 US-PATENT-CLASS-356-103 US-PATENT-CLASS-356-28 US-PATENT-CLASS-356-5 US-PATENT-3,856,402	N75-19329*	c 18	NASA-CASE-MFS-22734-1 US-PATENT-APPL-SN-453232 US-PATENT-CLASS-244-162 US-PATENT-3,866,863
N75-13111*	c 31	NASA-CASE-LAR-10782-2 US-PATENT-APPL-SN-197689 US-PATENT-APPL-SN-379049 US-PATENT-CLASS-249-144 US-PATENT-CLASS-249-145 US-PATENT-CLASS-249-59 US-PATENT-CLASS-425-DIG.43 US-PATENT-CLASS-425-405R US-PATENT-CLASS-425-438 US-PATENT-CLASS-425-468 US-PATENT-3,850,567	N75-15029*	c 36	NASA-CASE-NPO-13050-1 US-PATENT-APPL-SN-317567 US-PATENT-CLASS-117-95 US-PATENT-CLASS-117-97 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-3,859,119	N75-19408*	c 26	NASA-CASE-LEW-11696-2 US-PATENT-APPL-SN-298156 US-PATENT-APPL-SN-436315 US-PATENT-CLASS-29-194 US-PATENT-CLASS-29-196.2 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-3,869,779
N75-13139*	c 33	NASA-CASE-MFS-22073-1 US-PATENT-APPL-SN-409991 US-PATENT-CLASS-318-608 US-PATENT-CLASS-318-640 US-PATENT-CLASS-318-649 US-PATENT-CLASS-318-675 US-PATENT-3,851,238	N75-15050*	c 37	NASA-CASE-NPO-13201-1 US-PATENT-APPL-SN-372149 US-PATENT-CLASS-137-505.38 US-PATENT-CLASS-137-505.42 US-PATENT-CLASS-74-424.8VA US-PATENT-3,856,042	N75-19515*	c 33	NASA-CASE-MSC-14131-1 US-PATENT-APPL-SN-373588 US-PATENT-CLASS-307-260 US-PATENT-CLASS-324-78J US-PATENT-CLASS-328-59 US-PATENT-CLASS-331-78 US-PATENT-3,866,128
N75-13213*	c 35	NASA-CASE-LEW-11632-2 US-PATENT-APPL-SN-254173 US-PATENT-APPL-SN-327969 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-592 US-PATENT-CLASS-307-309 US-PATENT-CLASS-317-235H US-PATENT-CLASS-330-6 US-PATENT-3,849,875	N75-15270*	c 52	NASA-CASE-NPO-12119-1 US-PATENT-APPL-SN-847815 US-PATENT-CLASS-424-180 US-PATENT-3,849,554	N75-19516*	c 33	NASA-CASE-GSC-11760-1 NASA-CASE-GSC-11783-1 US-PATENT-APPL-SN-395868 US-PATENT-CLASS-343-761 US-PATENT-CLASS-343-781 US-PATENT-CLASS-343-837 US-PATENT-3,866,233
N75-13261*	c 37	NASA-CASE-LEW-11696-1 US-PATENT-APPL-SN-298156 US-PATENT-CLASS-29-196.6 US-PATENT-CLASS-29-197 US-PATENT-CLASS-29-460 US-PATENT-CLASS-29-494 US-PATENT-CLASS-29-497.5 US-PATENT-CLASS-29-504 US-PATENT-3,849,865	N75-15662*	c 09	NASA-CASE-LAR-10276-1 US-PATENT-APPL-SN-29979 US-PATENT-CLASS-272-1R US-PATENT-CLASS-272-57A US-PATENT-CLASS-35-12C US-PATENT-3,859,736	N75-19517*	c 33	NASA-CASE-GSC-11582-1 US-PATENT-APPL-SN-397477 US-PATENT-CLASS-178-15 US-PATENT-CLASS-315-18 US-PATENT-CLASS-340-324D US-PATENT-3,866,210
N75-13265*	c 37	NASA-CASE-KSC-10723-1 US-PATENT-APPL-SN-347952 US-PATENT-CLASS-338-162 US-PATENT-CLASS-338-75 US-PATENT-CLASS-338-97 US-PATENT-3,854,113	N75-15854*	c 32	NASA-CASE-NPO-13292-1 US-PATENT-APPL-SN-416135 US-PATENT-CLASS-343-100ST US-PATENT-CLASS-343-17.5 US-PATENT-CLASS-343-6.5R US-PATENT-CLASS-343-9 US-PATENT-3,860,921	N75-19518*	c 33	NASA-CASE-ARC-10348-1 US-PATENT-APPL-SN-140439 US-PATENT-CLASS-330-69 US-PATENT-CLASS-330-86 US-PATENT-3,872,395
N75-13266*	c 37	NASA-CASE-NPO-13281-1 US-PATENT-APPL-SN-412079 US-PATENT-CLASS-74-436 US-PATENT-CLASS-74-820 US-PATENT-3,855,873	N75-15874*	c 33	NASA-CASE-MFS-22088-1 US-PATENT-APPL-SN-426155 US-PATENT-CLASS-318-227 US-PATENT-CLASS-318-230 US-PATENT-CLASS-318-231 US-PATENT-3,860,858	N75-19519*	c 33	NASA-CASE-NPO-13125-1 US-PATENT-APPL-SN-319150 US-PATENT-CLASS-235-92DM US-PATENT-CLASS-235-92LG US-PATENT-CLASS-235-92R US-PATENT-CLASS-235-92T US-PATENT-CLASS-235-92VA US-PATENT-3,866,022
N75-13502*	c 51	NASA-CASE-LAR-11074-1 US-PATENT-APPL-SN-326364 US-PATENT-CLASS-115-103.5 US-PATENT-CLASS-195-120 US-PATENT-CLASS-195-127 US-PATENT-3,850,754	N75-15931*	c 35	NASA-CASE-MFS-21761-1 US-PATENT-APPL-SN-337816 US-PATENT-CLASS-200-83N US-PATENT-CLASS-73-40 US-PATENT-CLASS-73-49.2 US-PATENT-3,859,845	N75-19520*	c 33	NASA-CASE-ARC-10364-3 US-PATENT-APPL-SN-209618 US-PATENT-APPL-SN-462844 US-PATENT-CLASS-307-321 US-PATENT-CLASS-324-DIG.1 US-PATENT-CLASS-329-166 US-PATENT-CLASS-329-204 US-PATENT-CLASS-332-47 US-PATENT-3,869,676
N75-13531*	c 54	NASA-CASE-LEW-11581-1 US-PATENT-APPL-SN-327921 US-PATENT-CLASS-128-2.05A US-PATENT-CLASS-128-2.05P	N75-15932*	c 35	NASA-CASE-MFS-21045-1 US-PATENT-APPL-SN-411572 US-PATENT-CLASS-73-1R US-PATENT-CLASS-73-379 US-PATENT-3,859,840	N75-19521*	c 33	NASA-CASE-KSC-10736-1 US-PATENT-APPL-SN-348787 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113
			N75-15992*	c 37	NASA-CASE-GSC-11577-1 US-PATENT-APPL-SN-322997 US-PATENT-CLASS-117-106A			

N75-19522*	c 33	US-PATENT-3,869,667	N75-20140*	c 77	US-PATENT-CLASS-165-111	N75-25041*	c 33	US-PATENT-CLASS-331-25
		NASA-CASE-GSC-11844-1			US-PATENT-CLASS-62-285			US-PATENT-3,883,817
		US-PATENT-APPL-SN-452761			US-PATENT-CLASS-62-288			NASA-CASE-ARC-10364-2
		US-PATENT-CLASS-307-227			US-PATENT-CLASS-62-289			US-PATENT-APPL-SN-209618
		US-PATENT-CLASS-321-15			US-PATENT-CLASS-62-290			US-PATENT-APPL-SN-433968
N75-19524*	c 33	US-PATENT-CLASS-324-32	N75-20140*	c 77	US-PATENT-CLASS-62-317	N75-25122*	c 35	US-PATENT-CLASS-307-321
		US-PATENT-3,869,659			US-PATENT-CLASS-62-93			US-PATENT-CLASS-324-DIG.1
		NASA-CASE-NPO-13374-1			US-PATENT-3,868,830			US-PATENT-CLASS-329-166
		US-PATENT-APPL-SN-449118			NASA-CASE-GSC-11752-1			US-PATENT-CLASS-329-204
		US-PATENT-CLASS-318-137			US-PATENT-APPL-SN-446569			US-PATENT-3,883,812
N75-19611*	c 35	US-PATENT-CLASS-318-167	N75-21485*	c 32	US-PATENT-CLASS-219-497	N75-25123*	c 35	NASA-CASE-NPO-10764-2
		US-PATENT-CLASS-318-176			US-PATENT-CLASS-219-501			US-PATENT-APPL-SN-273519
		US-PATENT-CLASS-318-183			US-PATENT-CLASS-219-505			US-PATENT-APPL-SN-836280
		US-PATENT-3,867,677			US-PATENT-3,869,597			US-PATENT-CLASS-116-114.5
		NASA-CASE-LAR-11071-1			NASA-CASE-MS-12607-1			US-PATENT-CLASS-117-72
N75-19612*	c 35	US-PATENT-APPL-SN-334349	N75-21486*	c 32	US-PATENT-APPL-SN-407323	N75-25124*	c 35	US-PATENT-CLASS-178-7.2
		US-PATENT-CLASS-417-138			US-PATENT-CLASS-178-DIG.12			US-PATENT-3,883,689
		US-PATENT-CLASS-417-36			US-PATENT-CLASS-358-36			NASA-CASE-NPO-13214-1
		US-PATENT-CLASS-417-395			US-PATENT-3,875,584			NASA-CASE-NPO-13215-1
		US-PATENT-CLASS-73-221			NASA-CASE-MS-14558-1			US-PATENT-APPL-SN-394149
N75-19613*	c 35	US-PATENT-3,864,060	N75-21582*	c 35	US-PATENT-APPL-SN-428994	N75-25185*	c 37	US-PATENT-CLASS-178-DIG.29
		NASA-CASE-LAR-11237-1			US-PATENT-CLASS-178-58A			US-PATENT-CLASS-178-7.2
		US-PATENT-APPL-SN-402868			US-PATENT-CLASS-178-79			US-PATENT-3,883,689
		US-PATENT-CLASS-340-242			US-PATENT-3,875,332			NASA-CASE-MFS-21704-1
		US-PATENT-CLASS-73-46			NASA-CASE-MFS-22671-1			US-PATENT-APPL-SN-386793
N75-19614*	c 35	US-PATENT-CLASS-73-49.2	N75-21631*	c 37	US-PATENT-APPL-SN-419831	N75-25186*	c 37	US-PATENT-CLASS-350-3.5
		US-PATENT-3,864,960			US-PATENT-CLASS-178-69A			US-PATENT-3,883,215
		NASA-CASE-LAR-11207-1			US-PATENT-CLASS-235-181			NASA-CASE-NPO-13360-1
		US-PATENT-APPL-SN-385013			US-PATENT-CLASS-324-57PS			US-PATENT-APPL-SN-401920
		US-PATENT-CLASS-178-DIG.20			US-PATENT-CLASS-324-77D			US-PATENT-CLASS-228-1
N75-19615*	c 35	US-PATENT-CLASS-250-332	N75-23910*	c 35	US-PATENT-CLASS-325-67	N75-25503*	c 51	US-PATENT-CLASS-251-333
		US-PATENT-CLASS-356-186			US-PATENT-3,875,500			US-PATENT-3,874,635
		US-PATENT-CLASS-356-189			NASA-CASE-LEW-11274-1			NASA-CASE-MFS-22649-1
		US-PATENT-CLASS-356-83			US-PATENT-APPL-SN-380630			US-PATENT-APPL-SN-398901
		US-PATENT-CLASS-356-96			US-PATENT-CLASS-277-134			US-PATENT-CLASS-408-112
N75-19616*	c 35	US-PATENT-3,869,212	N75-24716*	c 05	US-PATENT-CLASS-277-27	N75-25706*	c 74	US-PATENT-CLASS-408-186
		NASA-CASE-LAR-11173-1			US-PATENT-CLASS-277-40			US-PATENT-CLASS-408-193
		US-PATENT-APPL-SN-354408			US-PATENT-3,874,677			US-PATENT-CLASS-408-195
		US-PATENT-CLASS-332-2			NASA-CASE-NPO-13327-1			US-PATENT-3,877,833
		US-PATENT-CLASS-73-557			US-PATENT-APPL-SN-429437			NASA-CASE-ARC-10722-1
N75-19652*	c 36	US-PATENT-3,868,856	N75-24736*	c 07	US-PATENT-CLASS-247-171	N75-25730*	c 76	US-PATENT-APPL-SN-428995
		NASA-CASE-MFS-22189-1			US-PATENT-CLASS-250-203			US-PATENT-CLASS-47-1.2
		US-PATENT-APPL-SN-405342			US-PATENT-CLASS-250-211R			US-PATENT-CLASS-47-39
		US-PATENT-CLASS-33-148D			US-PATENT-3,875,404			US-PATENT-CLASS-47-58
		US-PATENT-CLASS-73-143			NASA-CASE-MS-14339-1			US-PATENT-3,882,634
N75-19653*	c 36	US-PATENT-3,864,953	N75-24758*	c 09	US-PATENT-APPL-SN-347953	N75-25914*	c 05	US-PATENT-3,883,436
		NASA-CASE-MFS-20932-1			US-PATENT-CLASS-128-2.06E			NASA-CASE-HQN-10542-1
		US-PATENT-APPL-SN-374441			US-PATENT-CLASS-128-DIG.4			US-PATENT-APPL-SN-163151
		US-PATENT-CLASS-250-505			US-PATENT-CLASS-128-2.06B			US-PATENT-CLASS-178-DIG.25
		US-PATENT-CLASS-250-508			US-PATENT-3,882,846			US-PATENT-CLASS-250-566
N75-19654*	c 36	US-PATENT-CLASS-250-510	N75-24774*	c 12	US-PATENT-CLASS-10754-1	N75-25915*	c 05	US-PATENT-CLASS-350-311
		US-PATENT-3,869,615			NASA-CASE-ARC-10754-1			US-PATENT-3,883,436
		NASA-CASE-NPO-13131-1			US-PATENT-APPL-SN-398886			NASA-CASE-GSC-11425-2
		US-PATENT-APPL-SN-390468			US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-206266
		US-PATENT-CLASS-178-7.1			US-PATENT-CLASS-244-53B			US-PATENT-APPL-SN-394206
N75-19655*	c 36	US-PATENT-CLASS-250-211R	N75-24794*	c 14	US-PATENT-3,883,095	N75-26043*	c 25	US-PATENT-CLASS-357-23
		US-PATENT-CLASS-250-578			NASA-CASE-GSC-11127-1			US-PATENT-CLASS-357-29
		US-PATENT-CLASS-315-169R			US-PATENT-APPL-SN-401466			US-PATENT-CLASS-357-42
		US-PATENT-CLASS-340-173LS			US-PATENT-CLASS-318-314			US-PATENT-CLASS-357-52
		US-PATENT-3,865,975			US-PATENT-CLASS-318-318			US-PATENT-CLASS-357-54
N75-19683*	c 37	US-PATENT-CLASS-318-341	N75-24981*	c 32	US-PATENT-CLASS-318-341	N75-26194*	c 32	US-PATENT-CLASS-357-91
		NASA-CASE-HQN-10844-1			US-PATENT-3,883,785			US-PATENT-3,882,530
		US-PATENT-APPL-SN-412080			NASA-CASE-NPO-13263-1			NASA-CASE-LAR-11252-1
		US-PATENT-CLASS-356-106LR			US-PATENT-APPL-SN-393523			US-PATENT-APPL-SN-367268
		US-PATENT-3,869,210			US-PATENT-CLASS-73-505			US-PATENT-CLASS-D12-76
N75-19684*	c 37	US-PATENT-3,869,210	N75-24982*	c 32	US-PATENT-3,882,732	N75-26195*	c 32	US-PATENT-CLASS-244-13
		NASA-CASE-GSC-11746-1			NASA-CASE-MFS-21488-1			US-PATENT-CLASS-244-15
		US-PATENT-APPL-SN-393528			US-PATENT-APPL-SN-359156			US-PATENT-CLASS-244-42DA
		US-PATENT-CLASS-331-94.5M			US-PATENT-CLASS-73-143			US-PATENT-CLASS-244-55
		US-PATENT-3,869,680			US-PATENT-3,882,719			US-PATENT-3,884,432
N75-19685*	c 37	NASA-CASE-LAR-11341-1	N75-25040*	c 33	NASA-CASE-NPO-13303-1	N75-26195*	c 32	NASA-CASE-NPO-13321-1
		US-PATENT-APPL-SN-367293			US-PATENT-APPL-SN-457295			US-PATENT-APPL-SN-455163
		US-PATENT-CLASS-330-4.3			US-PATENT-CLASS-310-10			US-PATENT-CLASS-178-69.5R
		US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-310-10			US-PATENT-CLASS-179-155B
		US-PATENT-3,868,591			US-PATENT-CLASS-310-52			US-PATENT-CLASS-325-4
N75-19686*	c 37	US-PATENT-CLASS-310-52	N75-24982*	c 32	US-PATENT-CLASS-335-216	N75-26195*	c 32	NASA-CASE-NPO-13217-1
		NASA-CASE-MS-19095-1			US-PATENT-CLASS-60-516			US-PATENT-APPL-SN-362145
		US-PATENT-APPL-SN-415486			US-PATENT-CLASS-60-530			US-PATENT-CLASS-343-105R
		US-PATENT-CLASS-219-137			US-PATENT-CLASS-62-3			US-PATENT-CLASS-343-112D
		US-PATENT-3,864,542			US-PATENT-CLASS-62-467			US-PATENT-3,889,264
N75-19688*	c 37	US-PATENT-CLASS-204-192	N75-24982*	c 32	US-PATENT-3,875,435	N75-26195*	c 32	NASA-CASE-NPO-13321-1
		US-PATENT-CLASS-204-298			NASA-CASE-GSC-11743-1			US-PATENT-APPL-SN-455163
		US-PATENT-3,864,239			US-PATENT-APPL-SN-370271			US-PATENT-CLASS-178-69.5R
		NASA-CASE-MFS-21606-1			US-PATENT-CLASS-178-66R			US-PATENT-CLASS-179-155B
		US-PATENT-APPL-SN-356555			US-PATENT-CLASS-325-30			US-PATENT-CLASS-325-4
N75-20139*	c 77	US-PATENT-CLASS-292-108	N75-24982*	c 32	US-PATENT-CLASS-325-60	N75-26195*	c 32	NASA-CASE-NPO-13321-1
		US-PATENT-CLASS-292-122			US-PATENT-3,878,464			US-PATENT-APPL-SN-455163
		US-PATENT-3,869,160			NASA-CASE-NPO-13140-1			US-PATENT-CLASS-178-69.5R
		NASA-CASE-MFS-19193-1			US-PATENT-APPL-SN-374422			US-PATENT-CLASS-179-155B
		US-PATENT-APPL-SN-461477			US-PATENT-CLASS-343-100PE			US-PATENT-CLASS-325-4

N75-26243*	c 33	US-PATENT-3,889,064	N75-27251*	c 33	US-PATENT-3,189,784	N75-29381*	c 35	US-PATENT-CLASS-311-37
		NASA-CASE-GSC-11744-1			NASA-CASE-HQN-10069			US-PATENT-CLASS-331-65
		US-PATENT-APPL-SN-353162			US-PATENT-APPL-SN-739072			US-PATENT-CLASS-73-23
		US-PATENT-CLASS-179-158C			US-PATENT-CLASS-330-5			US-PATENT-3,895,912
N75-26244*	c 33	US-PATENT-CLASS-235-150.53	N75-27252*	c 33	US-PATENT-3,551,831	N75-29382*	c 35	NASA-CASE-ARC-10806-1
		US-PATENT-CLASS-235-181			NASA-CASE-LAR-11042-1			US-PATENT-APPL-SN-478802
		US-PATENT-CLASS-324-83Q			US-PATENT-APPL-SN-440916			US-PATENT-CLASS-73-178R
		US-PATENT-CLASS-328-133			US-PATENT-CLASS-204-242			US-PATENT-3,895,521
N75-26245*	c 33	US-PATENT-3,875,394	N75-27328*	c 35	US-PATENT-CLASS-204-267	N75-29426*	c 37	NASA-CASE-XMS-05731
		NASA-CASE-MFS-22208-1			US-PATENT-CLASS-204-279			US-PATENT-APPL-SN-441279
		US-PATENT-APPL-SN-448325			US-PATENT-CLASS-204-286			US-PATENT-CLASS-73-117.4
		US-PATENT-CLASS-315-10			US-PATENT-CLASS-204-290R			US-PATENT-3,375,712
N75-26246*	c 33	US-PATENT-CLASS-315-367	N75-27329*	c 35	US-PATENT-3,891,533	N75-30132*	c 03	NASA-CASE-XLE-10717
		US-PATENT-CLASS-315-369			NASA-CASE-MFS-22537-1			US-PATENT-APPL-SN-844243
		US-PATENT-CLASS-315-387			US-PATENT-APPL-SN-387266			US-PATENT-CLASS-315-111
		US-PATENT-3,889,155			US-PATENT-CLASS-350-3.5			US-PATENT-3,004,189
N75-26282*	c 34	NASA-CASE-LAR-11352-1	N75-27330*	c 35	US-PATENT-3,888,561	N75-30256*	c 23	NASA-CASE-ERC-10419-1
		US-PATENT-APPL-SN-459736			NASA-CASE-XMF-05882			US-PATENT-APPL-SN-219722
		US-PATENT-CLASS-23-254E			US-PATENT-APPL-SN-533650			US-PATENT-CLASS-343-112CA
		US-PATENT-CLASS-324-58.5A			US-PATENT-CLASS-250-83.3			US-PATENT-CLASS-343-6.5R
N75-26282*	c 34	US-PATENT-CLASS-324-58.5C	N75-27331*	c 35	US-PATENT-3,454,766	N75-30428*	c 33	US-PATENT-3,900,847
		US-PATENT-3,889,182			NASA-CASE-LAR-11354-1			NASA-CASE-MFS-22356-1
		NASA-CASE-KSC-10807-1			US-PATENT-APPL-SN-409990			US-PATENT-APPL-SN-489008
		US-PATENT-APPL-SN-461073			US-PATENT-CLASS-195-103.5R			US-PATENT-CLASS-260-346.3
N75-26334*	c 35	US-PATENT-CLASS-324-72	N75-27331*	c 35	US-PATENT-CLASS-195-120	N75-30429*	c 33	US-PATENT-CLASS-260-520
		US-PATENT-3,889,185			US-PATENT-CLASS-195-127			US-PATENT-CLASS-260-78TF
		NASA-CASE-LAR-11110-1			US-PATENT-CLASS-195-141			US-PATENT-3,899,517
		US-PATENT-APPL-SN-420424			US-PATENT-3,884,765			NASA-CASE-LAR-10337-1
N75-26371*	c 37	US-PATENT-CLASS-233-DIG.1	N75-27364*	c 36	US-PATENT-APPL-SN-502136	N75-30430*	c 33	US-PATENT-APPL-SN-424038
		US-PATENT-CLASS-233-25			US-PATENT-CLASS-250-385			US-PATENT-CLASS-29-610
		US-PATENT-CLASS-233-46			US-PATENT-3,891,851			US-PATENT-CLASS-338-13
		US-PATENT-CLASS-233-6			NASA-CASE-XLE-2529-2			US-PATENT-CLASS-338-283
N75-26372*	c 37	US-PATENT-3,888,410	N75-27376*	c 37	US-PATENT-APPL-SN-848403	N75-30502*	c 35	US-PATENT-3,898,730
		NASA-CASE-ARC-10344-2			US-PATENT-CLASS-240-41B			NASA-CASE-MFS-22342-1
		US-PATENT-APPL-SN-446564			US-PATENT-CLASS-330-4.3			US-PATENT-APPL-SN-361666
		US-PATENT-CLASS-55-386			US-PATENT-CLASS-331-94.5A			US-PATENT-CLASS-330-13
N75-26789* #	c 70	US-PATENT-3,887,345	N75-27585*	c 45	US-PATENT-3,894,289	N75-30503*	c 35	US-PATENT-CLASS-330-18
		NASA-CASE-GSC-10984-1			NASA-CASE-XMS-01330			US-PATENT-CLASS-330-40
		US-PATENT-APPL-SN-127480			US-PATENT-APPL-SN-153624			US-PATENT-CLASS-330-63
		US-PATENT-CLASS-117-126GM			US-PATENT-APPL-SN-322565			US-PATENT-3,898,578
N75-27040*	c 18	US-PATENT-CLASS-117-126R	N75-27588*	c 54	US-PATENT-CLASS-219-125	N75-30504*	c 33	NASA-CASE-MFS-21616-1
		US-PATENT-CLASS-161-92			US-PATENT-3,275,794			US-PATENT-APPL-SN-464723
		US-PATENT-CLASS-161-93			NASA-CASE-NPO-13231-1			US-PATENT-CLASS-330-207A
		US-PATENT-CLASS-29-182.2			US-PATENT-APPL-SN-428993			US-PATENT-CLASS-330-224
N75-27041*	c 18	US-PATENT-CLASS-29-182.5	N75-27759*	c 54	US-PATENT-CLASS-250-343	N75-30505*	c 35	US-PATENT-3,899,745
		US-PATENT-CLASS-29-420.5			US-PATENT-CLASS-250-345			NASA-CASE-NPO-13504-1
		US-PATENT-CLASS-65-3			US-PATENT-CLASS-250-432			US-PATENT-APPL-SN-483852
		US-PATENT-CLASS-75-DIG.1			US-PATENT-3,891,848			US-PATENT-CLASS-33-96
N75-27041*	c 18	US-PATENT-CLASS-75-200	N75-27760*	c 54	NASA-CASE-NPO-13386-1	N75-30506*	c 35	US-PATENT-CLASS-333-21R
		US-PATENT-CLASS-75-208R			US-PATENT-APPL-SN-475336			US-PATENT-CLASS-333-83BT
		US-PATENT-CLASS-75-212			US-PATENT-CLASS-214-1CM			US-PATENT-CLASS-333-98R
		US-PATENT-CLASS-75-214			US-PATENT-CLASS-214-1CM			US-PATENT-3,902,143
N75-27041*	c 18	US-PATENT-CLASS-75-222	N75-27761*	c 54	US-PATENT-CLASS-318-640	N75-30507*	c 35	NASA-CASE-KSC-10782-1
		US-PATENT-3,887,365			US-PATENT-3,888,362			US-PATENT-APPL-SN-400467
		NASA-CASE-MFS-21931-1			NASA-CASE-MS-13601-2			US-PATENT-CLASS-178-DIG.1
		US-PATENT-APPL-SN-464721			US-PATENT-APPL-SN-395495			US-PATENT-CLASS-178-6.8
N75-27041*	c 18	US-PATENT-CLASS-250-359	N75-27760*	c 54	US-PATENT-CLASS-351-38	N75-30508*	c 35	US-PATENT-3,900,705
		US-PATENT-CLASS-250-460			US-PATENT-3,891,311			NASA-CASE-ARC-10802-1
		US-PATENT-CLASS-250-492			NASA-CASE-ARC-10753-1			US-PATENT-APPL-SN-484208
		US-PATENT-3,889,122			US-PATENT-APPL-SN-427395			US-PATENT-CLASS-205-343
N75-27041*	c 18	NASA-CASE-MFS-22758-1	N75-27761*	c 54	US-PATENT-CLASS-128-2.05Z	N75-30509*	c 35	US-PATENT-CLASS-250-351
		US-PATENT-APPL-SN-581514			US-PATENT-CLASS-128-2V			US-PATENT-CLASS-250-373
		NASA-CASE-XHQ-02146			US-PATENT-CLASS-128-24A			US-PATENT-CLASS-356-51
		US-PATENT-APPL-SN-290043			US-PATENT-CLASS-74-471XY			US-PATENT-3,899,252
N75-27041*	c 18	US-PATENT-CLASS-52-71	N75-27761*	c 54	US-PATENT-3,893,449	N75-30510*	c 35	NASA-CASE-LEW-12078-1
		US-PATENT-3,206,897			NASA-CASE-NPO-13313-1			US-PATENT-APPL-SN-447124
		NASA-CASE-MS-14245-1			US-PATENT-APPL-SN-449153			US-PATENT-CLASS-73-194M
		US-PATENT-APPL-SN-389916			US-PATENT-CLASS-128-145.8			US-PATENT-CLASS-73-195
N75-27125*	c 26	US-PATENT-CLASS-214-1CM	N75-28135*	c 24	US-PATENT-CLASS-55-DIG.35	N75-30511*	c 35	US-PATENT-3,898,882
		US-PATENT-3,893,573			US-PATENT-3,893,458			NASA-CASE-MS-12531-1
		NASA-CASE-XMF-05868			NASA-CASE-MFS-21077-1			US-PATENT-APPL-SN-354612
		US-PATENT-APPL-SN-512509			US-PATENT-APPL-SN-127481			US-PATENT-CLASS-307-204
N75-27126*	c 26	US-PATENT-CLASS-260-29.6	N75-28135*	c 24	US-PATENT-CLASS-228-190	N75-30512*	c 35	US-PATENT-CLASS-307-211
		US-PATENT-3,475,442			US-PATENT-CLASS-228-193			US-PATENT-CLASS-307-219
		NASA-CASE-XMF-06053			US-PATENT-CLASS-29-419			US-PATENT-CLASS-328-61
		US-PATENT-APPL-SN-542192			US-PATENT-3,894,677			US-PATENT-CLASS-328-62
N75-27127*	c 26	US-PATENT-CLASS-75-173	N75-29192*	c 25	NASA-CASE-HQN-10462	N75-30524*	c 36	US-PATENT-3,900,741
		US-PATENT-3,411,900			US-PATENT-APPL-SN-773530			NASA-CASE-NPO-13308-1
		NASA-CASE-XNP-03878			US-PATENT-CLASS-118-43			US-PATENT-APPL-SN-455165
		US-PATENT-APPL-SN-488745			US-PATENT-3,603,285			US-PATENT-CLASS-310-4
N75-27127*	c 26	US-PATENT-CLASS-75-173	N75-29236*	c 26	NASA-CASE-XNP-01311	N75-30525*	c 36	US-PATENT-CLASS-331-DIG.1
		US-PATENT-3,373,016			US-PATENT-APPL-SN-430496			US-PATENT-3,899,696
		NASA-CASE-MFS-22324-1			US-PATENT-CLASS-148-127			NASA-CASE-LEW-11076-3
		US-PATENT-APPL-SN-350250			US-PATENT-3,390,023			US-PATENT-APPL-SN-405346
N75-27160*	c 27	US-PATENT-CLASS-106-48	N75-29263* #	c 27	NASA-CASE-LAR-11397-1	N75-30562*	c 37	US-PATENT-CLASS-308-121
		US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-532784			US-PATENT-CLASS-308-73
		US-PATENT-CLASS-117-129			NASA-CASE-ARC-10266-1			US-PATENT-3,899,224
		US-PATENT-3,891,452			US-PATENT-APPL-SN-453241			NASA-CASE-LEW-11227-1
N75-27249*	c 33	NASA-CASE-XMS-02744	N75-29318*	c 33	US-PATENT-APPL-SN-585988	N75-30876*	c 73	US-PATENT-APPL-SN-146939
		US-PATENT-APPL-SN-351950			US-PATENT-CLASS-315-111			US-PATENT-CLASS-244-1SS
		US-PATENT-CLASS-200-129			US-PATENT-3,469,143			US-PATENT-CLASS-250-493
		US-PATENT-3,281,558			NASA-CASE-MFS-22060-1			US-PATENT-CLASS-250-496
N75-27250*	c 33	NASA-CASE-XNP-01296	N75-29380*	c 35	US-PATENT-APPL-SN-521603	N75-31329*	c 33	US-PATENT-3,899,680
		US-PATENT-APPL-SN-127984			US-PATENT-CLASS-23-254E			NASA-CASE-NPO-13423-1
		US-PATENT-CLASS-315-30			US-PATENT-CLASS-23-255E			US-PATENT-APPL-SN-470429

		US-PATENT-CLASS-128-25			US-PATENT-CLASS-279-18	N76-14429*	c 35	NASA-CASE-LAR-11552-1
		US-PATENT-CLASS-338-2			US-PATENT-CLASS-279-107			US-PATENT-APPL-SN-518685
		US-PATENT-CLASS-73-88.5			US-PATENT-CLASS-279-89			US-PATENT-CLASS-73-182
N75-31330*	c 33	US-PATENT-3,905,356			US-PATENT-CLASS-29-26A			US-PATENT-CLASS-73-212
		NASA-CASE-NPO-13426-1			US-PATENT-CLASS-294-116	N76-14430*	c 35	US-PATENT-3,914,997
		US-PATENT-APPL-SN-45053			US-PATENT-CLASS-294-86.33			NASA-CASE-NPO-13170-1
		US-PATENT-CLASS-307-225R			US-PATENT-3,907,312			US-PATENT-APPL-SN-382261
		US-PATENT-CLASS-328-41	N75-33640*	c 52	NASA-CASE-LEW-12051-1			US-PATENT-CLASS-338-6
		US-PATENT-3,906,374			US-PATENT-APPL-SN-397478			US-PATENT-CLASS-73-88.5R
N75-31331*	c 33	NASA-CASE-NPO-11156-2			US-PATENT-CLASS-128-230	N76-14431*	c 35	US-PATENT-3,914,991
		US-PATENT-APPL-SN-174684			US-PATENT-CLASS-128-305			NASA-CASE-LEW-11915-1
		US-PATENT-CLASS-307-238			US-PATENT-3,906,954			US-PATENT-APPL-SN-474744
		US-PATENT-CLASS-340-173CA	N76-14158*	c 15	NASA-CASE-LAR-11051-1			US-PATENT-CLASS-137-15.2
		US-PATENT-CLASS-357-24			US-PATENT-APPL-SN-384773			US-PATENT-CLASS-235-151.34
		US-PATENT-CLASS-357-7			US-PATENT-CLASS-244-165			US-PATENT-CLASS-60-39.29
		US-PATENT-3,906,296			US-PATENT-CLASS-244-3.21	N76-14447*	c 36	US-PATENT-3,911,260
N75-31332*	c 33	NASA-CASE-NPO-13348-1			US-PATENT-CLASS-74-5.7			NASA-CASE-ARC-10642-1
		US-PATENT-APPL-SN-452770			US-PATENT-3,915,416			US-PATENT-APPL-SN-446562
		US-PATENT-CLASS-250-238	N76-14186*	c 18	NASA-CASE-MS-12559-1			US-PATENT-CLASS-356-106R
		US-PATENT-CLASS-250-370			US-PATENT-APPL-SN-370582			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-357-5			US-PATENT-CLASS-178-DIG.20			US-PATENT-3,915,572
		US-PATENT-3,906,231			US-PATENT-CLASS-244-161	N76-14460*	c 37	NASA-CASE-MFS-19194-1
N75-31426*	c 36	NASA-CASE-ARC-10370-1			US-PATENT-CLASS-33-286			US-PATENT-APPL-SN-483850
		US-PATENT-APPL-SN-137391			US-PATENT-CLASS-35-12			US-PATENT-CLASS-285-226
		US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-356-153			US-PATENT-CLASS-285-265
		US-PATENT-CLASS-331-94.5P			US-PATENT-3,910,533			US-PATENT-3,915,482
		US-PATENT-3,906,397	N76-14190*	c 20	NASA-CASE-LEW-11593-1	N76-14461*	c 37	NASA-CASE-LEW-11694-2
N75-31427*	c 36	NASA-CASE-NPO-13175-1			US-PATENT-APPL-SN-363691			US-PATENT-APPL-SN-352381
		US-PATENT-APPL-SN-374423			US-PATENT-CLASS-60-39.23			US-PATENT-APPL-SN-462903
		US-PATENT-CLASS-331-94.5C			US-PATENT-CLASS-60-39.29			US-PATENT-CLASS-29-421
		US-PATENT-CLASS-350-161			US-PATENT-CLASS-60-39.74R			US-PATENT-CLASS-72-363
		US-PATENT-CLASS-350-96WG			US-PATENT-3,910,035			US-PATENT-CLASS-72-54
		US-PATENT-3,906,393	N76-14191*	c 20	NASA-CASE-LEW-11118-2			US-PATENT-CLASS-72-63
N75-31446*	c 37	NASA-CASE-LEW-11925-1			US-PATENT-APPL-SN-436316			US-PATENT-3,914,969
		US-PATENT-APPL-SN-450505			US-PATENT-CLASS-239-127.3	N76-14463*	c 37	NASA-CASE-MFS-22323-1
		US-PATENT-CLASS-308-191			US-PATENT-CLASS-60-265			US-PATENT-APPL-SN-474745
		US-PATENT-CLASS-308-195			US-PATENT-CLASS-60-267			US-PATENT-CLASS-137-515.3
		US-PATENT-CLASS-308-201			US-PATENT-3,910,039			US-PATENT-CLASS-137-550
		US-PATENT-3,905,660	N76-14203*	c 24	NASA-CASE-NPO-12122-1			US-PATENT-CLASS-210-429
N75-32441*	c 36	NASA-CASE-NPO-13449-1			US-PATENT-APPL-SN-401921			US-PATENT-CLASS-251-149.6
		US-PATENT-APPL-SN-420813			US-PATENT-CLASS-149-36			US-PATENT-3,910,307
		US-PATENT-CLASS-310-11			US-PATENT-CLASS-423-407	N76-14595*	c 44	NASA-CASE-MFS-22562-1
		US-PATENT-CLASS-330-4.3			US-PATENT-3,919,014			US-PATENT-APPL-SN-458484
		US-PATENT-CLASS-331-94.5PE	N76-14204*	c 24	NASA-CASE-MS-12568-1			US-PATENT-CLASS-126-270
		US-PATENT-CLASS-331-94.5G			US-PATENT-APPL-SN-325784			US-PATENT-CLASS-136-206
		US-PATENT-3,906,398			US-PATENT-CLASS-136-146			US-PATENT-CLASS-204-32R
N75-32465* #	c 37	NASA-CASE-ARC-10907-1			US-PATENT-CLASS-136-148			US-PATENT-CLASS-204-33
		US-PATENT-APPL-SN-619986			US-PATENT-CLASS-162-102			US-PATENT-CLASS-204-38A
N75-32581*	c 44	NASA-CASE-MFS-21628-1			US-PATENT-CLASS-162-153			US-PATENT-CLASS-204-40
		US-PATENT-APPL-SN-421702			US-PATENT-CLASS-162-222			US-PATENT-CLASS-204-42
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-162-228			US-PATENT-CLASS-204-49
		US-PATENT-CLASS-165-105			US-PATENT-3,910,814			US-PATENT-CLASS-29-194
		US-PATENT-CLASS-244-173	N76-14264*	c 27	NASA-CASE-MS-14182-1			US-PATENT-CLASS-29-195
		US-PATENT-CLASS-60-641			US-PATENT-APPL-SN-419748			US-PATENT-CLASS-29-197
		US-PATENT-CLASS-60-659			US-PATENT-CLASS-403-179			US-PATENT-3,920,413
		US-PATENT-3,903,699			US-PATENT-CLASS-403-28	N76-14600*	c 44	NASA-CASE-LEW-11065-2
N75-33181*	c 24	NASA-CASE-LEW-11484-1			US-PATENT-CLASS-428-109			US-PATENT-APPL-SN-154930
		US-PATENT-APPL-SN-356554			US-PATENT-CLASS-428-212			US-PATENT-APPL-SN-371322
		US-PATENT-CLASS-117-105.2			US-PATENT-CLASS-428-214			US-PATENT-CLASS-136-89
		US-PATENT-CLASS-117-38			US-PATENT-CLASS-428-416			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-117-46FS			US-PATENT-CLASS-428-447			US-PATENT-3,912,540
		US-PATENT-CLASS-117-8.5			US-PATENT-CLASS-428-77	N76-14601*	c 44	NASA-CASE-MFS-22749-1
		US-PATENT-CLASS-29-DIG.24			US-PATENT-3,920,339			US-PATENT-APPL-SN-483857
		US-PATENT-CLASS-29-DIG.39	N76-14284*	c 31	NASA-CASE-NPO-13435-1			US-PATENT-CLASS-136-114
		US-PATENT-CLASS-29-527.2			US-PATENT-APPL-SN-478803			US-PATENT-CLASS-136-162
		US-PATENT-CLASS-72-46			US-PATENT-CLASS-62-129			US-PATENT-CLASS-136-182
		US-PATENT-3,906,769			US-PATENT-CLASS-62-49			US-PATENT-CLASS-136-90
N75-33342*	c 34	NASA-CASE-MS-14273-1			US-PATENT-CLASS-73-295			US-PATENT-3,912,541
		US-PATENT-APPL-SN-385522			US-PATENT-3,914,950	N76-14602*	c 44	NASA-CASE-NPO-13497-1
		US-PATENT-CLASS-210-234	N76-14321*	c 32	NASA-CASE-LAR-11021-1			US-PATENT-APPL-SN-526448
		US-PATENT-CLASS-210-259			US-PATENT-APPL-SN-453115			US-PATENT-CLASS-126-271
		US-PATENT-CLASS-210-304			US-PATENT-CLASS-325-304			US-PATENT-CLASS-237-1A
		US-PATENT-CLASS-210-333			US-PATENT-CLASS-325-306			US-PATENT-CLASS-350-211
		US-PATENT-CLASS-210-340			US-PATENT-CLASS-325-372			US-PATENT-3,915,148
		US-PATENT-CLASS-210-411			US-PATENT-CLASS-328-145	N76-14757*	c 52	NASA-CASE-MS-14180-1
		US-PATENT-CLASS-210-425			US-PATENT-CLASS-343-176			US-PATENT-APPL-SN-354406
		US-PATENT-CLASS-210-512			US-PATENT-3,916,318			US-PATENT-CLASS-128-2.06R
		US-PATENT-CLASS-210-82	N76-14371*	c 33	NASA-CASE-KSC-10834-1			US-PATENT-CLASS-128-2.1A
		US-PATENT-3,907,686			US-PATENT-APPL-SN-536535			US-PATENT-CLASS-128-2H
N75-33367*	c 35	NASA-CASE-LAR-10629-1			US-PATENT-CLASS-178-69.5R			US-PATENT-3,910,257
		US-PATENT-APPL-SN-402867			US-PATENT-CLASS-178-88	N76-14804*	c 54	NASA-CASE-MS-14640-1
		US-PATENT-CLASS-116-114AH			US-PATENT-CLASS-328-190			US-PATENT-APPL-SN-526449
		US-PATENT-CLASS-73-12			US-PATENT-CLASS-328-63			US-PATENT-CLASS-128-2F
		US-PATENT-CLASS-73-170R			US-PATENT-3,916,084			US-PATENT-CLASS-73-421R
		US-PATENT-CLASS-73-432PS	N76-14372*	c 33	NASA-CASE-LAR-10970-1			US-PATENT-3,915,012
		US-PATENT-3,896,758			US-PATENT-APPL-SN-527790	N76-14818*	c 60	NASA-CASE-NPO-13422-1
N75-33368*	c 35	NASA-CASE-LAR-11326-1			US-PATENT-CLASS-343-770			US-PATENT-APPL-SN-521601
		US-PATENT-APPL-SN-491416			US-PATENT-CLASS-343-797			US-PATENT-CLASS-340-147C
		US-PATENT-CLASS-195-103.5R			US-PATENT-CLASS-343-846			US-PATENT-CLASS-340-147R
		US-PATENT-3,907,646			US-PATENT-3,919,710			US-PATENT-3,916,380
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N76-31666*	c 44		NASA-CASE-NPO-13087-2				US-PATENT-CLASS-321-19				US-PATENT-CLASS-60-527
			US-PATENT-APPL-SN-296622				US-PATENT-CLASS-321-2				US-PATENT-3,987,630
			US-PATENT-APPL-SN-462341				US-PATENT-CLASS-323-DIG.1		N77-12721*	c 60	NASA-CASE-NPO-13428-1
			US-PATENT-CLASS-136-206				US-PATENT-CLASS-323-17				NASA-CASE-NPO-13447-1
			US-PATENT-CLASS-136-89				US-PATENT-CLASS-323-22T				US-PATENT-APPL-SN-495022
			US-PATENT-3,966,499				US-PATENT-CLASS-323-23				US-PATENT-CLASS-179-15BA
N76-31667*	c 44		NASA-CASE-MFS-23167-1				US-PATENT-3,984,799				US-PATENT-CLASS-328-111
			US-PATENT-APPL-SN-602618		N77-10429*	c 33	NASA-CASE-GSC-11963-1				US-PATENT-CLASS-340-172.5
			US-PATENT-CLASS-165-10				US-PATENT-APPL-SN-595197				US-PATENT-3,988,716
			US-PATENT-CLASS-60-659				US-PATENT-CLASS-244-1A		N77-13217*	c 27	NASA-CASE-NPO-13666-1
			US-PATENT-3,977,197				US-PATENT-CLASS-244-42CG				US-PATENT-APPL-SN-633877
N76-31714*	c 45		NASA-CASE-LAR-11405-1				US-PATENT-CLASS-317-2D				US-PATENT-CLASS-29-182.5

N77-13315*	c 33	US-PATENT-3,990,860 NASA-CASE-NPO-11515-1 US-PATENT-APPL-SN-139596 US-PATENT-CLASS-307-233 US-PATENT-CLASS-307-295 US-PATENT-CLASS-328-133 US-PATENT-3,750,035	N77-14581*	c 44	US-PATENT-3,996,067 NASA-CASE-LEW-12220-1 US-PATENT-APPL-SN-606891 US-PATENT-CLASS-320-2 US-PATENT-CLASS-429-23 US-PATENT-CLASS-429-34 US-PATENT-3,996,064	N77-18154*	c 07	US-PATENT-APPL-SN-565289 US-PATENT-CLASS-235-92CA US-PATENT-CLASS-235-92CT US-PATENT-CLASS-235-92DN US-PATENT-CLASS-235-92R US-PATENT-4,001,552
N77-13418*	c 37	NASA-CASE-ARC-10905-1 US-PATENT-APPL-SN-618594 US-PATENT-CLASS-219-300 US-PATENT-CLASS-219-304 US-PATENT-CLASS-239-171 US-PATENT-CLASS-252-359A US-PATENT-3,990,987	N77-14735*	c 52	NASA-CASE-MFS-23225-1 US-PATENT-APPL-SN-612965 US-PATENT-CLASS-3-1.2 US-PATENT-CLASS-3-14 US-PATENT-3,995,324	N77-18307*	c 32	NASA-CASE-ARC-10761-1 US-PATENT-APPL-SN-612899 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,007,891
N77-14025*	c 07	NASA-CASE-LEW-12419-1 US-PATENT-APPL-SN-579375 US-PATENT-CLASS-416-153 US-PATENT-CLASS-416-160 US-PATENT-CLASS-416-162 US-PATENT-CLASS-416-165 US-PATENT-CLASS-416-167 US-PATENT-CLASS-60-226R US-PATENT-3,994,128	N77-14736*	c 52	NASA-CASE-ARC-11007-1 US-PATENT-APPL-SN-652948 US-PATENT-CLASS-128-2H US-PATENT-CLASS-128-379 US-PATENT-CLASS-128-400 US-PATENT-CLASS-128-402 US-PATENT-3,995,621	N77-18382*	c 34	NASA-CASE-MFS-23303-1 US-PATENT-APPL-SN-676957 US-PATENT-CLASS-333-70R US-PATENT-CLASS-333-75 US-PATENT-CLASS-333-76 US-PATENT-CLASS-333-82B US-PATENT-4,007,434
N77-14292*	c 32	NASA-CASE-LAR-11607-1 US-PATENT-APPL-SN-617895 US-PATENT-CLASS-325-145 US-PATENT-CLASS-332-22 US-PATENT-CLASS-332-23R US-PATENT-3,996,532	N77-14737*	c 52	NASA-CASE-MS-C-14276-1 US-PATENT-APPL-SN-557430 US-PATENT-CLASS-250-363R US-PATENT-CLASS-250-444 US-PATENT-CLASS-250-498 US-PATENT-3,996,471	N77-18417*	c 35	NASA-CASE-LAR-10805-2 US-PATENT-APPL-SN-428992 US-PATENT-APPL-SN-578240 US-PATENT-CLASS-244-117A US-PATENT-CLASS-427-160 US-PATENT-CLASS-427-322 US-PATENT-CLASS-428-35 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-461 US-PATENT-CLASS-428-474 US-PATENT-4,008,348
N77-14333*	c 33	NASA-CASE-GSC-11789-1 US-PATENT-APPL-SN-538982 US-PATENT-CLASS-317-31 US-PATENT-CLASS-321-13 US-PATENT-3,996,506	N77-14738*	c 52	NASA-CASE-KSC-10849-1 US-PATENT-APPL-SN-613734 US-PATENT-CLASS-128-418 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-339-252R US-PATENT-3,995,644	N77-18891*	c 73	NASA-CASE-ARC-10898-1 US-PATENT-APPL-SN-625732 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-432SD US-PATENT-CLASS-73-71.6 US-PATENT-4,007,623
N77-14334*	c 33	NASA-CASE-GSC-12018-1 US-PATENT-APPL-SN-635531 US-PATENT-CLASS-329-122 US-PATENT-CLASS-329-124 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-36C US-PATENT-CLASS-332-30V US-PATENT-3,997,848	N77-14751*	c 60	NASA-CASE-GSC-11839-1 US-PATENT-APPL-SN-468614 US-PATENT-CLASS-235-152 US-PATENT-CLASS-250-227 US-PATENT-CLASS-340-172.5 US-PATENT-CLASS-350-96R US-PATENT-3,996,455	N77-18893*	c 74	NASA-CASE-NPO-13121-1 US-PATENT-APPL-SN-294727 US-PATENT-CLASS-310-4R US-PATENT-CLASS-313-311 US-PATENT-CLASS-346R US-PATENT-4,008,407
N77-14335*	c 33	NASA-CASE-MFS-22560-1 US-PATENT-APPL-SN-589233 US-PATENT-CLASS-250-214A US-PATENT-CLASS-330-14 US-PATENT-CLASS-330-28 US-PATENT-CLASS-330-59 US-PATENT-3,996,462	N77-17029*	c 05	NASA-CASE-ARC-10807-1 US-PATENT-APPL-SN-513612 US-PATENT-CLASS-416-104 US-PATENT-CLASS-416-138 US-PATENT-CLASS-416-141 US-PATENT-3,999,886	N77-19056*	c 04	NASA-CASE-ARC-10898-1 US-PATENT-APPL-SN-612967 US-PATENT-CLASS-358-44 US-PATENT-4,004,292
N77-14406*	c 35	NASA-CASE-NPO-13663-1 US-PATENT-APPL-SN-634205 US-PATENT-CLASS-250-289 US-PATENT-CLASS-250-298 US-PATENT-3,996,464	N77-17059*	c 07	NASA-CASE-LEW-12760-1 US-PATENT-APPL-SN-569925 US-PATENT-CLASS-60-226A US-PATENT-CLASS-60-228 US-PATENT-4,005,574	N77-19076*	c 09	NASA-CASE-LAR-11387-2 US-PATENT-APPL-SN-531647 US-PATENT-APPL-SN-623156 US-PATENT-CLASS-33-356 US-PATENT-CLASS-73-178R US-PATENT-4,006,631
N77-14407*	c 35	NASA-CASE-LAR-11648-1 US-PATENT-APPL-SN-645571 US-PATENT-CLASS-73-133R US-PATENT-3,995,476	N77-17143*	c 20	NASA-CASE-XLA-01349 US-PATENT-APPL-SN-256493 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-102-49.3 US-PATENT-CLASS-264-3R US-PATENT-CLASS-86-1R US-PATENT-CLASS-86-20R US-PATENT-4,000,682	N77-19170*	c 24	NASA-CASE-ARC-10979-1 US-PATENT-APPL-SN-608483 US-PATENT-CLASS-124-6 US-PATENT-CLASS-244-63 US-PATENT-3,989,206
N77-14408*	c 35	NASA-CASE-ARC-10448-3 US-PATENT-APPL-SN-221670 US-PATENT-APPL-SN-318848 US-PATENT-CLASS-250-396 US-PATENT-3,996,468	N77-17161*	c 23	NASA-CASE-LEW-12760-1 US-PATENT-APPL-SN-569925 US-PATENT-CLASS-60-226A US-PATENT-CLASS-60-228 US-PATENT-4,005,574	N77-19171*	c 24	NASA-CASE-LEW-12550-1 US-PATENT-APPL-SN-596905 US-PATENT-CLASS-416-224 US-PATENT-CLASS-416-230 US-PATENT-4,006,999
N77-14409*	c 35	NASA-CASE-NPO-13540-1 US-PATENT-APPL-SN-526450 US-PATENT-CLASS-136-232 US-PATENT-CLASS-136-233 US-PATENT-3,996,070	N77-17351*	c 33	NASA-CASE-XLA-01349 US-PATENT-APPL-SN-256493 US-PATENT-APPL-SN-54552 US-PATENT-CLASS-102-49.3 US-PATENT-CLASS-264-3R US-PATENT-CLASS-86-1R US-PATENT-CLASS-86-20R US-PATENT-4,000,682	N77-19353*	c 34	NASA-CASE-ARC-10912-1 US-PATENT-APPL-SN-623187 US-PATENT-CLASS-73-178R US-PATENT-4,006,631
N77-14411*	c 35	NASA-CASE-NPO-13683-1 US-PATENT-APPL-SN-599284 US-PATENT-CLASS-250-343 US-PATENT-CLASS-356-201 US-PATENT-CLASS-356-204 US-PATENT-CLASS-356-97 US-PATENT-3,995,960	N77-17354*	c 33	NASA-CASE-MSC-14428-1 US-PATENT-APPL-SN-450504 US-PATENT-CLASS-23-230B US-PATENT-CLASS-23-230M US-PATENT-CLASS-23-230R US-PATENT-CLASS-23-231 US-PATENT-CLASS-23-232C US-PATENT-CLASS-23-232R US-PATENT-CLASS-23-254R US-PATENT-CLASS-55-197 US-PATENT-CLASS-55-67 US-PATENT-CLASS-55-74 US-PATENT-CLASS-73-23.1 US-PATENT-CLASS-73-61.1C US-PATENT-4,003,257	N77-19385*	c 35	NASA-CASE-ARC-10912-1 US-PATENT-APPL-SN-623187 US-PATENT-CLASS-73-178R US-PATENT-4,006,631
N77-14477*	c 37	NASA-CASE-FRC-10081-1 US-PATENT-APPL-SN-598504 US-PATENT-CLASS-280-432 US-PATENT-3,995,877	N77-17426*	c 35	NASA-CASE-MFS-23181-1 US-PATENT-APPL-SN-566495 US-PATENT-CLASS-331-114 US-PATENT-CLASS-331-177V US-PATENT-CLASS-332-18 US-PATENT-CLASS-332-30V US-PATENT-4,003,004	N77-19416*	c 36	NASA-CASE-MSC-14653-1 US-PATENT-APPL-SN-521816 US-PATENT-CLASS-177-1 US-PATENT-CLASS-177-208 US-PATENT-CLASS-73-432R US-PATENT-3,988,933
N77-14478*	c 37	NASA-CASE-LAR-11658-1 US-PATENT-APPL-SN-625759 US-PATENT-CLASS-83-451 US-PATENT-CLASS-83-467R US-PATENT-3,995,522	N77-17464*	c 37	NASA-CASE-LEW-11881-1 US-PATENT-APPL-SN-598968 US-PATENT-CLASS-307-229 US-PATENT-CLASS-307-230 US-PATENT-CLASS-328-161 US-PATENT-4,001,602	N77-19457*	c 37	NASA-CASE-XNP-04167-3 US-PATENT-APPL-SN-170544 US-PATENT-APPL-SN-479357 US-PATENT-CLASS-331-94.5D US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5PE US-PATENT-4,007,430
N77-14479*	c 37	NASA-CASE-GSC-11960-1 US-PATENT-APPL-SN-629456 US-PATENT-CLASS-242-187 US-PATENT-CLASS-242-193 US-PATENT-CLASS-242-204 US-PATENT-CLASS-242-210 US-PATENT-CLASS-242-57 US-PATENT-3,995,789	N77-17495*	c 38	NASA-CASE-MFS-22671-2 US-PATENT-APPL-SN-419831 US-PATENT-APPL-SN-561956 US-PATENT-CLASS-360-25 US-PATENT-CLASS-360-31 US-PATENT-4,003,084	N77-19458*	c 37	NASA-CASE-MFS-15218-1 US-PATENT-APPL-SN-387094 US-PATENT-CLASS-197-188 US-PATENT-CLASS-197-190 US-PATENT-3,989,136
N77-14580*	c 44	NASA-CASE-LEW-11496-1 US-PATENT-APPL-SN-645508 US-PATENT-CLASS-136-89 US-PATENT-CLASS-204-192			NASA-CASE-GSC-11978-1 US-PATENT-APPL-SN-593142 US-PATENT-CLASS-308-10 US-PATENT-4,000,929 NASA-CASE-GSC-11902-1			NASA-CASE-GSC-11883-1 NASA-CASE-GSC-11974-1 NASA-CASE-GSC-11975-1

		US-PATENT-APPL-SN-596787			US-PATENT-APPL-SN-841278			US-PATENT-CLASS-60-39.28R
		US-PATENT-CLASS-310-4A			US-PATENT-CLASS-313-175			US-PATENT-CLASS-60-39.66
		US-PATENT-CLASS-337-334			US-PATENT-CLASS-313-180			US-PATENT-4,020.632
		US-PATENT-CLASS-340-224			US-PATENT-CLASS-313-184	N77-23482*	c 37	NASA-CASE-LAR-11563-1
		US-PATENT-CLASS-60-527			US-PATENT-CLASS-315-108			US-PATENT-APPL-SN-672815
		US-PATENT-CLASS-75-122.7			US-PATENT-CLASS-315-110			US-PATENT-CLASS-29-DIG.35
		US-PATENT-CLASS-75-170			US-PATENT-3,621,330			US-PATENT-CLASS-29-447
		US-PATENT-4,010,455	N77-21392*	c 35	NASA-CASE-NPO-10711-1			US-PATENT-CLASS-403-273
N77-19571*	c 44	NASA-CASE-LEW-11549-1			US-PATENT-APPL-SN-844315			US-PATENT-CLASS-53-9
		US-PATENT-APPL-SN-510677			US-PATENT-CLASS-179-100.2C			US-PATENT-4,017,959
		US-PATENT-CLASS-136-89	N77-21393*	c 35	US-PATENT-3,697,705	N77-23483*	c 37	NASA-CASE-MFS-23088-1
		US-PATENT-3,989,541			US-PATENT-APPL-SN-757017			US-PATENT-APPL-SN-602617
N77-19760*	c 60	NASA-CASE-ARC-10899-1			US-PATENT-CLASS-338-25			US-PATENT-CLASS-213-81
		US-PATENT-APPL-SN-576774			US-PATENT-3,555,483			US-PATENT-CLASS-214-1CM
		US-PATENT-CLASS-178-69.5R	N77-21844*	c 54	NASA-CASE-MFS-23074-1			US-PATENT-CLASS-244-161
		US-PATENT-CLASS-179-15BS			US-PATENT-APPL-SN-623188	N77-24328*	c 32	US-PATENT-4,018,409
		US-PATENT-CLASS-340-172.5			US-PATENT-CLASS-188-291			NASA-CASE-ARC-10984-1
		US-PATENT-3,990,049			US-PATENT-CLASS-254-158			US-PATENT-APPL-SN-690815
N77-20162*	c 20	NASA-CASE-LEW-12048-1			US-PATENT-4,018,423			US-PATENT-CLASS-358-133
		US-PATENT-APPL-SN-665033			NASA-CASE-NPO-11429-1			US-PATENT-CLASS-358-138
		US-PATENT-CLASS-313-230	N77-21941*	c 74	US-PATENT-APPL-SN-95189	N77-24331*	c 32	US-PATENT-4,025,950
		US-PATENT-CLASS-313-231.3			US-PATENT-CLASS-240-41.35R			NASA-CASE-MSC-14840-1
		US-PATENT-CLASS-313-360			US-PATENT-CLASS-240-41R			US-PATENT-APPL-SN-692414
		US-PATENT-CLASS-315-111.3			US-PATENT-CLASS-240-46.13			US-PATENT-CLASS-217-88
		US-PATENT-CLASS-315-111.6			US-PATENT-CLASS-356-236			US-PATENT-CLASS-325-346
		US-PATENT-CLASS-60-202			US-PATENT-3,711,701			US-PATENT-CLASS-329-104
		US-PATENT-4,011,719	N77-22386*	c 33	NASA-CASE-NPO-10870-1			US-PATENT-CLASS-329-122
N77-20201*	c 26	NASA-CASE-LEW-12245-1			NASA-CASE-NPO-11191-1	N77-24375*	c 33	US-PATENT-4,027,265
		US-PATENT-APPL-SN-584094			NASA-CASE-NPO-11403-1			NASA-CASE-MSC-12709-1
		US-PATENT-CLASS-148-12.7N			US-PATENT-APPL-SN-108810			US-PATENT-APPL-SN-630583
		US-PATENT-CLASS-148-162			US-PATENT-CLASS-313-146			US-PATENT-CLASS-307-225R
		US-PATENT-CLASS-148-2			US-PATENT-CLASS-313-182			US-PATENT-CLASS-328-38
		US-PATENT-CLASS-148-20.3			US-PATENT-CLASS-313-60			US-PATENT-CLASS-328-39
		US-PATENT-CLASS-148-32.5			US-PATENT-3,736,453			US-PATENT-CLASS-328-4.8
		US-PATENT-CLASS-75-170	N77-22449*	c 35	NASA-CASE-LAR-11825-1			US-PATENT-CLASS-328-63
		US-PATENT-4,012,237			US-PATENT-APPL-SN-632112	N77-24423*	c 34	US-PATENT-4,025,866
N77-20289*	c 32	NASA-CASE-NPO-13753-1			US-PATENT-CLASS-73-88R			NASA-CASE-LAR-12045-1
		US-PATENT-APPL-SN-658449			US-PATENT-4,018,085			US-PATENT-APPL-SN-682416
		US-PATENT-CLASS-325-4	N77-22450*	c 35	NASA-CASE-MFS-23281-1			US-PATENT-CLASS-259/4R
		US-PATENT-CLASS-343-100ST			US-PATENT-APPL-SN-657995			US-PATENT-CLASS-261-DIG.75
		US-PATENT-CLASS-343-6.BR			US-PATENT-CLASS-73-15.6			US-PATENT-CLASS-261-123
		US-PATENT-CLASS-343-6.5R			US-PATENT-CLASS-73-95			US-PATENT-4,026,527
		US-PATENT-4,012,696			US-PATENT-4,018,080	N77-24454*	c 35	NASA-CASE-ARC-10900-1
N77-20399*	c 35	NASA-CASE-ARC-10716-1			US-PATENT-4,018,080			US-PATENT-APPL-SN-630579
		US-PATENT-APPL-SN-403695	N77-22479*	c 37	NASA-CASE-NPO-10316-1			US-PATENT-CLASS-338-229
		US-PATENT-CLASS-235-150.2			US-PATENT-APPL-SN-703107			US-PATENT-CLASS-338-28
		US-PATENT-CLASS-235-150.25			US-PATENT-CLASS-60-53			US-PATENT-4,025,891
		US-PATENT-CLASS-244-165	N77-22480*	c 37	US-PATENT-3,478,514	N77-24455*	c 35	NASA-CASE-GSC-12077-1
		US-PATENT-CLASS-244-171			NASA-CASE-NPO-13058-1			US-PATENT-APPL-SN-635519
		US-PATENT-4,012,018			NASA-CASE-NPO-13096-1			US-PATENT-CLASS-65-108
N77-20400*	c 35	NASA-CASE-ARC-10911-1			US-PATENT-APPL-SN-403154			US-PATENT-CLASS-65-59A
		US-PATENT-APPL-SN-610802			US-PATENT-CLASS-214-16.1CB			US-PATENT-CLASS-6554
		US-PATENT-CLASS-338-28	N77-22482*	c 37	US-PATENT-3,896,955			US-PATENT-CLASS-6564
		US-PATENT-CLASS-73-204			NASA-CASE-MSC-19536-1	N77-25499*	c 36	US-PATENT-4,025,327
		US-PATENT-4,011,756			US-PATENT-APPL-SN-658450			NASA-CASE-GSC-11571-1
N77-20401*	c 35	NASA-CASE-MFS-23267-1			US-PATENT-CLASS-74-96			US-PATENT-APPL-SN-646704
		US-PATENT-APPL-SN-653422	N77-22606*	c 44	US-PATENT-4,018,092			US-PATENT-CLASS-331-94.5S
		US-PATENT-CLASS-126-270			NASA-CASE-LEW-12364-1			US-PATENT-4,025,875
		US-PATENT-CLASS-126-271			US-PATENT-APPL-SN-707124	N77-25501*	c 36	NASA-CASE-ARC-10970-1
		US-PATENT-CLASS-250-203R			US-PATENT-CLASS-253-317			US-PATENT-APPL-SN-691046
		US-PATENT-4,011,854			US-PATENT-CLASS-429-105			US-PATENT-CLASS-250-574
N77-20882*	c 74	NASA-CASE-LAR-11782-1			US-PATENT-CLASS-429-107			US-PATENT-CLASS-350-100
		US-PATENT-APPL-SN-608482			US-PATENT-CLASS-429-190			US-PATENT-CLASS-350-102
		US-PATENT-CLASS-350-145	N77-22607*	c 44	US-PATENT-4,018,971			US-PATENT-CLASS-356-28
		US-PATENT-CLASS-350-174			NASA-CASE-LAR-11361-1	N77-25502*	c 36	US-PATENT-4,026,655
		US-PATENT-4,012,123			US-PATENT-APPL-SN-669928			NASA-CASE-NPO-13147-1
N77-21267*	c 32	NASA-CASE-LAR-11390-1			US-PATENT-CLASS-23-277R			US-PATENT-APPL-SN-317310
		US-PATENT-APPL-SN-662176			US-PATENT-CLASS-23-281			US-PATENT-CLASS-330-4.3
		US-PATENT-CLASS-340-5H			US-PATENT-CLASS-423-648R			US-PATENT-CLASS-331-94.5D
		US-PATENT-CLASS-343-18B			US-PATENT-CLASS-55-158			US-PATENT-CLASS-331-94.5P
		US-PATENT-CLASS-343-5CM			US-PATENT-4,019,868			US-PATENT-4,027,273
		US-PATENT-CLASS-343-5MM	N77-22794*	c 51	NASA-CASE-GSC-12039-1	N77-25769*	c 51	NASA-CASE-LAR-10773-3
		US-PATENT-4,019,179			US-PATENT-APPL-SN-572991			US-PATENT-APPL-SN-125235
N77-21314*	c 33	NASA-CASE-NPO-10189-1			US-PATENT-CLASS-195-103.5K			US-PATENT-APPL-SN-314656
		NASA-CASE-NPO-10781-1			US-PATENT-CLASS-195-103.5R			US-PATENT-APPL-SN-623238
		US-PATENT-APPL-SN-744522	N77-22950*	c 74	US-PATENT-4,014,745			US-PATENT-CLASS-195-1.8
		US-PATENT-CLASS-307-232			NASA-CASE-ARC-10976-1			US-PATENT-4,018,649
		US-PATENT-CLASS-307-238			US-PATENT-APPL-SN-665032	N77-25772*	c 52	NASA-CASE-KSC-11030-1
		US-PATENT-CLASS-307-280			US-PATENT-CLASS-356-171			US-PATENT-APPL-SN-709849
		US-PATENT-CLASS-329-119			US-PATENT-4,018,533			US-PATENT-CLASS-128-1R
		US-PATENT-CLASS-329-205	N77-22951*	c 74	NASA-CASE-NPO-13722-1			US-PATENT-CLASS-3-1
		US-PATENT-CLASS-332-16			US-PATENT-APPL-SN-616472			US-PATENT-CLASS-339,12R
		US-PATENT-CLASS-332-30			US-PATENT-CLASS-250-203R			US-PATENT-4,025,964
		US-PATENT-CLASS-332-52			US-PATENT-CLASS-250-211K	N77-26385*	c 33	NASA-CASE-LEW-11978-1
		US-PATENT-3,582,828			US-PATENT-CLASS-356-141			US-PATENT-APPL-SN-708658
N77-21315*	c 33	NASA-CASE-NPO-11510-1			US-PATENT-CLASS-356-152			US-PATENT-CLASS-204-32A
		US-PATENT-APPL-SN-173178			US-PATENT-CLASS-356-172			US-PATENT-CLASS-29-597
		US-PATENT-APPL-SN-385059	N77-23106*	c 07	US-PATENT-4,018,532			US-PATENT-CLASS-29-622
		US-PATENT-CLASS-313-161			NASA-CASE-LEW-12830-1			US-PATENT-CLASS-29-628
		US-PATENT-CLASS-313-184			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-29-630E
		US-PATENT-CLASS-313-224			US-PATENT-APPL-SN-655149			US-PATENT-4,023,266
		US-PATENT-CLASS-313-32			US-PATENT-CLASS-123-122E	N77-26386*	c 33	NASA-CASE-GSC-11824-1
		US-PATENT-CLASS-315-344			US-PATENT-CLASS-123-41.33			US-PATENT-APPL-SN-583486
		US-PATENT-3,881,132			US-PATENT-CLASS-137-101			US-PATENT-CLASS-318-138
N77-21316*	c 33	NASA-CASE-NPO-10790-1			US-PATENT-CLASS-415-180			US-PATENT-CLASS-318-227
					US-PATENT-CLASS-60-39.03			US-PATENT-CLASS-318-254

N77-26387*	c 33	US-PATENT-4,027,212 NASA-CASE-LAR-11389-1 US-PATENT-APPL-SN-229143 US-PATENT-APPL-SN-340862 US-PATENT-CLASS-310-111 US-PATENT-CLASS-310-168 US-PATENT-CLASS-322-96 US-PATENT-3,849,720
N77-26477*	c 36	NASA-CASE-NPO-13550-1 US-PATENT-APPL-SN-483301 US-PATENT-CLASS-250-281 US-PATENT-CLASS-250-282 US-PATENT-CLASS-250-283 US-PATENT-CLASS-250-423P US-PATENT-4,031,389
N77-26919*	c 71	NASA-CASE-NPO-13673-1 US-PATENT-APPL-SN-613004 US-PATENT-CLASS-330-5.5 US-PATENT-CLASS-331-107A US-PATENT-CLASS-333-72 US-PATENT-4,025,876
N77-26942*	c 74	NASA-CASE-GSC-12058-1 US-PATENT-APPL-SN-680938 US-PATENT-CLASS-250-199 US-PATENT-4,025,783
N77-27116*	c 07	NASA-CASE-LEW-12608-1 US-PATENT-APPL-SN-680067 US-PATENT-CLASS-416-220R US-PATENT-CLASS-416-221 US-PATENT-4,033,705
N77-27131*	c 09	NASA-CASE-LAR-11883-1 US-PATENT-APPL-SN-662175 US-PATENT-CLASS-73-15R US-PATENT-4,027,524
N77-27187*	c 24	NASA-CASE-MFS-22926-1 US-PATENT-APPL-SN-557565 US-PATENT-CLASS-164-60 US-PATENT-CLASS-75-135 US-PATENT-CLASS-75-139 US-PATENT-CLASS-75-65R US-PATENT-4,029,500
N77-27188*	c 24	NASA-CASE-LEW-12118-1 US-PATENT-APPL-SN-616332 US-PATENT-CLASS-428-301 US-PATENT-CLASS-428-328 US-PATENT-CLASS-428-368 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-902 US-PATENT-CLASS-428-911 US-PATENT-4,029,838
N77-27345*	c 34	NASA-CASE-ARC-10974-1 US-PATENT-APPL-SN-667010 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-228 US-PATENT-4,028,939
N77-27366*	c 35	NASA-CASE-GSC-12059-1 US-PATENT-APPL-SN-680957 US-PATENT-CLASS-331-94.5D US-PATENT-CLASS-331-94.5T US-PATENT-CLASS-350-253 US-PATENT-4,030,047
N77-27367*	c 35	NASA-CASE-NPO-11103-1 US-PATENT-APPL-SN-3654 US-PATENT-CLASS-73-84 US-PATENT-3,623,359
N77-27368*	c 35	NASA-CASE-MS-12327-1 US-PATENT-APPL-SN-19572 US-PATENT-CLASS-73-362AR US-PATENT-3,613,454
N77-27400*	c 37	NASA-CASE-GSC-11063-1 US-PATENT-APPL-SN-41431 US-PATENT-CLASS-318-267 US-PATENT-CLASS-318-468 US-PATENT-CLASS-318-470 US-PATENT-CLASS-318-675 US-PATENT-3,628,113
N77-27677*	c 51	NASA-CASE-LAR-11649-1 US-PATENT-APPL-SN-626942 US-PATENT-CLASS-118-313 US-PATENT-CLASS-118-6 US-PATENT-CLASS-118-7 US-PATENT-CLASS-118-9 US-PATENT-CLASS-23-253A US-PATENT-CLASS-23-259 US-PATENT-CLASS-23-292 US-PATENT-CLASS-424-3 US-PATENT-CLASS-427-4 US-PATENT-CLASS-8-3 US-PATENT-CLASS-8-94.11 US-PATENT-4,029,470
N77-28118*	c 07	NASA-CASE-LAR-11310-1 US-PATENT-APPL-SN-394898 US-PATENT-CLASS-415-145 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-263
N77-28225*	c 24	US-PATENT-4,033,119 NASA-CASE-MS-12631-1 US-PATENT-APPL-SN-58541 US-PATENT-CLASS-156-229 US-PATENT-CLASS-244-123 US-PATENT-CLASS-428-141 US-PATENT-CLASS-428-161 US-PATENT-CLASS-428-425 US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-458 US-PATENT-4,032,089
N77-28265*	c 26	NASA-CASE-LEW-11573-1 US-PATENT-APPL-SN-625733 US-PATENT-CLASS-228-190 US-PATENT-CLASS-228-194 US-PATENT-CLASS-228-232 US-PATENT-4,033,504
N77-28346*	c 32	NASA-CASE-GSC-12053-1 US-PATENT-APPL-SN-667930 US-PATENT-CLASS-250-199 US-PATENT-CLASS-250-238 US-PATENT-4,033,882
N77-28385*	c 33	NASA-CASE-LEW-12444-1 US-PATENT-APPL-SN-583485 US-PATENT-CLASS-123-148CB US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-176 US-PATENT-4,033,316
N77-28486*	c 37	NASA-CASE-LEW-11158-1 US-PATENT-APPL-SN-663008 US-PATENT-CLASS-308-5R US-PATENT-CLASS-308-73 US-PATENT-CLASS-308-9 US-PATENT-4,035,037
N77-28487*	c 37	NASA-CASE-MS-14905-1 US-PATENT-APPL-SN-708795 US-PATENT-CLASS-128-DIG.12 US-PATENT-CLASS-128-214F US-PATENT-CLASS-222-61 US-PATENT-CLASS-222-95 US-PATENT-4,033,479
N77-28511*	c 39	NASA-CASE-MFS-23299-1 US-PATENT-APPL-SN-700673 US-PATENT-CLASS-73-67.7 US-PATENT-CLASS-73-88R US-PATENT-4,033,182
N77-28716*	c 52	NASA-CASE-LEW-12258-1 US-PATENT-APPL-SN-676433 US-PATENT-CLASS-128-1R US-PATENT-CLASS-128-303R US-PATENT-4,033,349
N77-28717*	c 52	NASA-CASE-MS-14623-1 US-PATENT-APPL-SN-637269 US-PATENT-CLASS-128-DIG.4 US-PATENT-CLASS-128-2.1E US-PATENT-CLASS-128-410 US-PATENT-4,033,334
N77-28932*	c 74	NASA-CASE-GSC-11989-1 US-PATENT-APPL-SN-645500 US-PATENT-CLASS-350-162SF US-PATENT-CLASS-350-202 US-PATENT-CLASS-350-299 US-PATENT-4,035,062
N77-28933*	c 74	NASA-CASE-NPO-13707-1 US-PATENT-APPL-SN-617202 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-310 US-PATENT-CLASS-350-320 US-PATENT-4,035,065
N77-29260*	c 26	NASA-CASE-MFS-23405-1 US-PATENT-APPL-SN-718267 US-PATENT-CLASS-228-124 US-PATENT-CLASS-228-263 US-PATENT-4,033,503
N77-30236*	c 27	NASA-CASE-NPO-13620-1 US-PATENT-APPL-SN-666992 US-PATENT-CLASS-210-24 US-PATENT-CLASS-536-105 US-PATENT-CLASS-536-536-85 US-PATENT-CLASS-536-56 US-PATENT-CLASS-536-58 US-PATENT-CLASS-536-84 US-PATENT-4,041,233
N77-30237*	c 27	NASA-CASE-MFS-23345-1 US-PATENT-APPL-SN-686989 US-PATENT-CLASS-106-292 US-PATENT-CLASS-106-296 US-PATENT-CLASS-106-299 US-PATENT-4,039,347
N77-30308*	c 32	NASA-CASE-GSC-12017-1 US-PATENT-APPL-SN-645510 US-PATENT-CLASS-325-30 US-PATENT-CLASS-325-42 US-PATENT-CLASS-325-473 US-PATENT-CLASS-325-65 US-PATENT-4,041,391
N77-30309*	c 32	NASA-CASE-GSC-11898-1 US-PATENT-APPL-SN-566494 US-PATENT-CLASS-179-1SA US-PATENT-CLASS-179-1SP US-PATENT-4,039,754
N77-30365*	c 33	NASA-CASE-NPO-13812-1 US-PATENT-APPL-SN-694855 US-PATENT-CLASS-307-64 US-PATENT-CLASS-363-53 US-PATENT-CLASS-363-70 US-PATENT-4,039,925
N77-30399*	c 34	NASA-CASE-MFS-19287-1 US-PATENT-APPL-SN-641802 US-PATENT-CLASS-137-207 US-PATENT-CLASS-137-209 US-PATENT-CLASS-60-259 US-PATENT-CLASS-62-55 US-PATENT-4,039,000
N77-30436*	c 35	NASA-CASE-MFS-23175-1 US-PATENT-APPL-SN-667928 US-PATENT-CLASS-324-163 US-PATENT-CLASS-324-165 US-PATENT-CLASS-324-174 US-PATENT-CLASS-340-271 US-PATENT-CLASS-340-347P US-PATENT-CLASS-340-347SY US-PATENT-4,039,946
N77-30749*	c 54	NASA-CASE-KSC-11004-1 US-PATENT-APPL-SN-710032 US-PATENT-CLASS-3-2 US-PATENT-CLASS-3-21 US-PATENT-4,038,705
N77-31308*	c 27	NASA-CASE-NPO-11609-2 US-PATENT-APPL-SN-228229 US-PATENT-APPL-SN-674700 US-PATENT-CLASS-210-DIG.27 US-PATENT-CLASS-210-40 US-PATENT-CLASS-260-2.5A US-PATENT-CLASS-260-2.5AM US-PATENT-CLASS-260-2.5AY US-PATENT-CLASS-260-77.5AP US-PATENT-4,039,489
N77-31350*	c 32	NASA-CASE-GSC-12075-1 US-PATENT-APPL-SN-562499 US-PATENT-CLASS-343-17.7 US-PATENT-4,042,926
N77-31404*	c 33	NASA-CASE-ARC-10897-1 US-PATENT-APPL-SN-625781 US-PATENT-CLASS-323-93 US-PATENT-CLASS-324-60 US-PATENT-CLASS-340-200 US-PATENT-CLASS-340-347SH US-PATENT-4,040,041
N77-31465*	c 35	NASA-CASE-MFS-23118-1 US-PATENT-APPL-SN-691256 US-PATENT-CLASS-356-212 US-PATENT-4,040,750
N77-31497*	c 37	NASA-CASE-NPO-13671-1 US-PATENT-APPL-SN-564622 US-PATENT-CLASS-123-DIG.8 US-PATENT-CLASS-123-119A US-PATENT-CLASS-123-122AB US-PATENT-CLASS-123-3 US-PATENT-CLASS-123-37 US-PATENT-CLASS-123-59E US-PATENT-4,041,910
N77-31601*	c 44	NASA-CASE-LEW-12587-1 US-PATENT-APPL-SN-717319 US-PATENT-CLASS-136-89AC US-PATENT-CLASS-136-89P US-PATENT-CLASS-52-173R US-PATENT-CLASS-52-51 US-PATENT-4,040,867
N77-32148*	c 07	NASA-CASE-LEW-12312-1 US-PATENT-APPL-SN-654787 US-PATENT-CLASS-416-135 US-PATENT-CLASS-416-190 US-PATENT-CLASS-416-193A US-PATENT-CLASS-416-241A US-PATENT-4,045,149
N77-32255*	c 25	NASA-CASE-NPO-13566-1 US-PATENT-APPL-SN-653316 US-PATENT-CLASS-204-DIG.11 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-204-158R US-PATENT-CLASS-204-162R US-PATENT-CLASS-250-527 US-PATENT-4,045,359
N77-32279*	c 26	NASA-CASE-LEW-12906-1 US-PATENT-APPL-SN-691936 US-PATENT-CLASS-148-32 US-PATENT-CLASS-75-170 US-PATENT-4,045,255
N77-32280*	c 26	NASA-CASE-LEW-12270-1 US-PATENT-APPL-SN-645507 US-PATENT-CLASS-148-32.5

		US-PATENT-CLASS-75-170			US-PATENT-CLASS-340-347AD			US-PATENT-CLASS-3-1.2
		US-PATENT-4,046,560			US-PATENT-CLASS-350-96R			US-PATENT-CLASS-3-15
N77-32308*	c 27	NASA-CASE-GSC-12110-1	N77-32919*	c 76	US-PATENT-4,045,792	N78-10709*	c 60	US-PATENT-CLASS-3-29
		US-PATENT-APPL-SN-682435			NASA-CASE-MFS-23001-1			US-PATENT-4,051,558
		US-PATENT-CLASS-156-645			US-PATENT-APPL-SN-610801			NASA-CASE-GSC-11839-2
		US-PATENT-CLASS-156-663			US-PATENT-CLASS-156-DIG.62			US-PATENT-APPL-SN-468614
		US-PATENT-4,046,619			US-PATENT-CLASS-156-601			US-PATENT-APPL-SN-657996
N77-32342*	c 32	NASA-CASE-NPO-13587-1			US-PATENT-CLASS-156-619			US-PATENT-CLASS-340-173LM
		US-PATENT-APPL-SN-589119			US-PATENT-CLASS-156-620			US-PATENT-CLASS-350-96R
		US-PATENT-CLASS-343-10			US-PATENT-4,046,617			US-PATENT-CLASS-356-169
		US-PATENT-CLASS-343-100CL	N78-10214*	c 24	NASA-CASE-LAR-11898-1	N78-10837*	c 71	US-PATENT-4,052,705
		US-PATENT-CLASS-343-5CM			US-PATENT-APPL-SN-723264			NASA-CASE-NPO-13802-1
		US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-428-116			US-PATENT-APPL-SN-658133
		US-PATENT-4,045,795			US-PATENT-CLASS-428-138			US-PATENT-CLASS-264-23
N77-32413*	c 34	NASA-CASE-GSC-11998-1			US-PATENT-CLASS-428-73			US-PATENT-CLASS-264-345
		US-PATENT-APPL-SN-579989			US-PATENT-CLASS-428-902			US-PATENT-CLASS-65-DIG.4
		US-PATENT-CLASS-165-105			US-PATENT-4,052,523			US-PATENT-CLASS-65-DIG.7
		US-PATENT-4,046,190	N78-10224*	c 25	NASA-CASE-LEW-12137-1			US-PATENT-CLASS-65-102
N77-32454*	c 35	NASA-CASE-LEW-12050-1			US-PATENT-APPL-SN-672210			US-PATENT-CLASS-65-2
		US-PATENT-APPL-SN-629457			US-PATENT-CLASS-165-105			US-PATENT-CLASS-65-32
		US-PATENT-CLASS-136-202			US-PATENT-CLASS-431-158			US-PATENT-CLASS-65-4B
		US-PATENT-CLASS-136-236R			US-PATENT-CLASS-431-352			US-PATENT-CLASS-65-87
		US-PATENT-CLASS-136-240			US-PATENT-CLASS-60-39.51R			US-PATENT-CLASS-73-505
		US-PATENT-4,045,247			US-PATENT-4,052,144			US-PATENT-4,052,181
N77-32455*	c 35	NASA-CASE-NPO-13792-1	N78-10225*	c 25	NASA-CASE-MSC-14831-1	N78-12390*	c 35	NASA-CASE-MSC-14773-1
		US-PATENT-APPL-SN-677351			US-PATENT-APPL-SN-685027			US-PATENT-APPL-SN-612966
		US-PATENT-CLASS-324-57H			US-PATENT-CLASS-204-292			US-PATENT-CLASS-137-197
		US-PATENT-CLASS-324-59			US-PATENT-CLASS-210-63R			US-PATENT-CLASS-210-222
		US-PATENT-4,045,728			US-PATENT-CLASS-210-71			US-PATENT-CLASS-55-100
N77-32456*	c 35	NASA-CASE-GSC-12143-1			US-PATENT-CLASS-252-472			US-PATENT-CLASS-55-26.9
		US-PATENT-APPL-SN-743249			US-PATENT-CLASS-427-229			US-PATENT-CLASS-55-3
		US-PATENT-CLASS-250-288			US-PATENT-4,052,302			US-PATENT-CLASS-62-50
		US-PATENT-CLASS-73-421.5R	N78-10375*	c 33	NASA-CASE-MSC-14916-1			US-PATENT-CLASS-62-514R
		US-PATENT-4,046,012			US-PATENT-APPL-SN-739914			US-PATENT-4,027,494
N77-32478*	c 36	NASA-CASE-LEW-12164-1			US-PATENT-CLASS-179-107R	N78-13320*	c 33	NASA-CASE-MFS-23274-1
		US-PATENT-APPL-SN-511334			US-PATENT-CLASS-179-175.1A			US-PATENT-APPL-SN-714158
		US-PATENT-CLASS-350-162SF			US-PATENT-CLASS-330-2			US-PATENT-CLASS-307-306
		US-PATENT-4,043,674			US-PATENT-4,049,930			US-PATENT-CLASS-338-32S
N77-32499*	c 37	NASA-CASE-MSC-19535-1	N78-10376*	c 33	NASA-CASE-MFS-23280-1			US-PATENT-CLASS-357-4
		US-PATENT-APPL-SN-641784			US-PATENT-APPL-SN-706425			US-PATENT-CLASS-357-5
		US-PATENT-CLASS-292-110			US-PATENT-CLASS-318-200			US-PATENT-CLASS-357-73
		US-PATENT-4,045,063			US-PATENT-CLASS-318-227			US-PATENT-4,055,847
N77-32500*	c 37	NASA-CASE-LEW-12527-1			US-PATENT-CLASS-318-230	N78-13400*	c 35	NASA-CASE-ARC-10639-1
		US-PATENT-APPL-SN-595747			US-PATENT-4,052,648			US-PATENT-APPL-SN-643043
		US-PATENT-CLASS-290-52	N78-10377*	c 33	NASA-CASE-NPO-13872-1			US-PATENT-CLASS-250-336
		US-PATENT-CLASS-308-195			US-PATENT-APPL-SN-742034			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-308-72			US-PATENT-CLASS-363-57			US-PATENT-CLASS-250-351
		US-PATENT-4,046,434			US-PATENT-CLASS-363-89			US-PATENT-4,055,764
N77-32501*	c 37	NASA-CASE-LEW-12477-1			US-PATENT-4,052,659	N78-13436*	c 37	NASA-CASE-LEW-12083-1
		US-PATENT-APPL-SN-595745	N78-10428*	c 35	NASA-CASE-MSC-14757-1			US-PATENT-APPL-SN-659882
		US-PATENT-CLASS-290-52			US-PATENT-APPL-SN-625734			US-PATENT-CLASS-250-499
		US-PATENT-CLASS-308-195			US-PATENT-CLASS-141-197			US-PATENT-CLASS-313-61S
		US-PATENT-4,046,435			US-PATENT-CLASS-141-4			US-PATENT-CLASS-427-124
N77-32580*	c 44	NASA-CASE-NPO-13675-1			US-PATENT-CLASS-417-225			US-PATENT-CLASS-427-126
		US-PATENT-APPL-SN-658132			US-PATENT-CLASS-60-560			US-PATENT-CLASS-427-248E
		US-PATENT-CLASS-204-157.1R			US-PATENT-CLASS-60-574			US-PATENT-CLASS-427-250
		US-PATENT-CLASS-250-527			US-PATENT-4,051,877			US-PATENT-CLASS-427-255
		US-PATENT-4,045,315	N78-10429*	c 35	NASA-CASE-NPO-13772-1			US-PATENT-4,055,686
N77-32581*	c 44	NASA-CASE-NPO-13510-1			US-PATENT-APPL-SN-675351	N78-13526*	c 44	NASA-CASE-NPO-13482-1
		US-PATENT-APPL-SN-536786			US-PATENT-CLASS-250-310			US-PATENT-APPL-SN-495021
		US-PATENT-CLASS-126-263			US-PATENT-CLASS-250-398			US-PATENT-CLASS-136-89SJ
		US-PATENT-CLASS-165-107			US-PATENT-4,052,614			US-PATENT-CLASS-357-15
		US-PATENT-CLASS-165-2	N78-10467*	c 37	NASA-CASE-LEW-12321-1			US-PATENT-CLASS-357-16
		US-PATENT-CLASS-62-4			US-PATENT-APPL-SN-596641			US-PATENT-CLASS-357-30
		US-PATENT-4,044,821			US-PATENT-CLASS-123-122E			US-PATENT-4,053,918
N77-32582*	c 44	NASA-CASE-NPO-13810-1			US-PATENT-CLASS-123-41.33	N78-13874*	c 74	NASA-CASE-GSC-12088-1
		US-PATENT-APPL-SN-681096			US-PATENT-CLASS-137-104			US-PATENT-APPL-SN-648700
		US-PATENT-CLASS-126-270			US-PATENT-CLASS-415-180			US-PATENT-CLASS-356-103
		US-PATENT-CLASS-126-271			US-PATENT-CLASS-60-39.28R			US-PATENT-CLASS-356-104
		US-PATENT-CLASS-52-117			US-PATENT-CLASS-60-39.66			US-PATENT-4,053,229
		US-PATENT-CLASS-60-641	N78-10468*	c 37	US-PATENT-4,041,697	N78-14096*	c 24	NASA-CASE-ARC-11042-1
		US-PATENT-4,044,753			NASA-CASE-LEW-12313-1			US-PATENT-APPL-SN-734902
N77-32583*	c 44	NASA-CASE-NPO-13736-1			US-PATENT-APPL-SN-581751			US-PATENT-CLASS-252-8.1
		US-PATENT-APPL-SN-681017			US-PATENT-CLASS-416-135			US-PATENT-CLASS-60-836
		US-PATENT-CLASS-350-295			US-PATENT-CLASS-416-141			US-PATENT-4,061,579
		US-PATENT-CLASS-350-320			US-PATENT-CLASS-416-220R	N78-14104*	c 25	NASA-CASE-ARC-10991-1
		US-PATENT-CLASS-427-130			US-PATENT-CLASS-416-248			US-PATENT-APPL-SN-744574
		US-PATENT-CLASS-427-47			US-PATENT-4,047,840			US-PATENT-CLASS-204-180G
		US-PATENT-CLASS-52-2	N78-10493*	c 39	NASA-CASE-NPO-13731-1			US-PATENT-CLASS-204-299R
		US-PATENT-4,046,462			US-PATENT-APPL-SN-653682			US-PATENT-4,061,561
N77-32721*	c 54	NASA-CASE-ARC-10756-1			US-PATENT-CLASS-73-15.6	N78-14164*	c 27	NASA-CASE-NPO-13867-1
		US-PATENT-APPL-SN-436313			US-PATENT-CLASS-73-91			US-PATENT-APPL-SN-692284
		US-PATENT-CLASS-2-2.1A			US-PATENT-4,030,348			US-PATENT-CLASS-260-DIG.15
		US-PATENT-CLASS-214-1BC	N78-10529*	c 43	NASA-CASE-GSC-11976-1			US-PATENT-CLASS-427-164
		US-PATENT-CLASS-214-1CM			US-PATENT-APPL-SN-677352			US-PATENT-CLASS-428-411
		US-PATENT-4,046,262			US-PATENT-CLASS-324-58.5B			US-PATENT-CLASS-428-522
N77-32722*	c 54	NASA-CASE-MSC-14771-1			US-PATENT-4,052,666			US-PATENT-CLASS-428-922
		US-PATENT-APPL-SN-688854	N78-10554*	c 44	NASA-CASE-NPO-13734-1			US-PATENT-CLASS-96-87A
		US-PATENT-CLASS-165-166			US-PATENT-APPL-SN-680939			US-PATENT-4,061,834
		US-PATENT-CLASS-55-179			US-PATENT-CLASS-126-271	N78-14364*	c 35	NASA-CASE-ARC-11046-1
		US-PATENT-CLASS-55-269			US-PATENT-CLASS-237-1A			US-PATENT-APPL-SN-712419
		US-PATENT-4,046,529			US-PATENT-CLASS-350-293			US-PATENT-CLASS-340-27SS
N77-32731*	c 60	NASA-CASE-GSC-11839-3			US-PATENT-CLASS-350-299			US-PATENT-CLASS-73-180
		US-PATENT-APPL-SN-468614			US-PATENT-4,051,834			US-PATENT-4,061,029
		US-PATENT-APPL-SN-657997	N78-10686*	c 52	NASA-CASE-ARC-10916-1	N78-14380*	c 36	NASA-CASE-MFS-19259-1
		US-PATENT-CLASS-250-199			US-PATENT-APPL-SN-701448			US-PATENT-APPL-SN-732630

			US-PATENT-CLASS-250-571				US-PATENT-CLASS-428-428				US-PATENT-APPL-SN-759220
			US-PATENT-CLASS-356-159				US-PATENT-4,062,996				US-PATENT-CLASS-260-67
			US-PATENT-CLASS-356-160				NASA-CASE-MFS-22409-2				US-PATENT-3,538,053
			US-PATENT-CLASS-356-199				US-PATENT-APPL-SN-445398				NASA-CASE-NPO-13764-1
			US-PATENT-4,061,427				US-PATENT-APPL-SN-636193				US-PATENT-APPL-SN-674194
N78-14452*	c 43		NASA-CASE-LEW-12217-1				US-PATENT-CLASS-250-272				US-PATENT-CLASS-128-92C
			US-PATENT-APPL-SN-763753				US-PATENT-CLASS-250-320				US-PATENT-CLASS-128-92G
			US-PATENT-CLASS-166-248				US-PATENT-4,063,088				US-PATENT-CLASS-260-42.17
			US-PATENT-CLASS-166-259				NASA-CASE-NPO-13619-1				US-PATENT-CLASS-3-1.9
			US-PATENT-4,061,190				US-PATENT-APPL-SN-572990				US-PATENT-4,064,566
N78-14625*	c 44		NASA-CASE-LEW-12039-1				US-PATENT-CLASS-185-38				NASA-CASE-LEW-11981-1
			US-PATENT-APPL-SN-687822				US-PATENT-CLASS-74-81				US-PATENT-APPL-SN-672220
			US-PATENT-CLASS-320-15				US-PATENT-CLASS-74-83				US-PATENT-CLASS-313-22
			US-PATENT-CLASS-320-18				US-PATENT-4,062,245				US-PATENT-CLASS-62-376
			US-PATENT-CLASS-320-40				NASA-CASE-LAR-11490-1				US-PATENT-CLASS-62-514R
			US-PATENT-CLASS-320-6				US-PATENT-APPL-SN-707125				US-PATENT-4,068,495
N78-14773*	c 52		US-PATENT-4,061,955				US-PATENT-CLASS-358-106				NASA-CASE-NPO-11978
			NASA-CASE-LEW-12668-1				US-PATENT-4,063,282				US-PATENT-APPL-SN-264268
			US-PATENT-APPL-SN-677353				NASA-CASE-XNP-01458				US-PATENT-CLASS-313-175
			US-PATENT-CLASS-128-305				US-PATENT-APPL-SN-160093				US-PATENT-CLASS-313-176
			US-PATENT-4,061,146				US-PATENT-CLASS-235-70				US-PATENT-CLASS-313-180
N78-14784*	c 54		NASA-CASE-MSC-14632-1				US-PATENT-3,229,905				US-PATENT-CLASS-313-184
			US-PATENT-APPL-SN-571459				NASA-CASE-LEW-12317-1				US-PATENT-CLASS-313-224
			US-PATENT-CLASS-204-180P				US-PATENT-APPL-SN-581750				US-PATENT-3,769,544
			US-PATENT-CLASS-204-301				US-PATENT-CLASS-60-204				NASA-CASE-XLE-06094
			US-PATENT-CLASS-210-192				US-PATENT-CLASS-60-226R				US-PATENT-APPL-SN-523632
			US-PATENT-CLASS-210-96M				US-PATENT-CLASS-60-271				US-PATENT-CLASS-315-22
			US-PATENT-CLASS-23-253A				US-PATENT-4,068,469				US-PATENT-3,423,627
N78-14867*	c 71		US-PATENT-4,061,570				NASA-CASE-LEW-12390-1				NASA-CASE-MSC-11235
			NASA-CASE-LAR-12106-1				US-PATENT-APPL-SN-522109				US-PATENT-APPL-SN-698239
			US-PATENT-APPL-SN-740156				US-PATENT-CLASS-60-226R				US-PATENT-CLASS-307-270
			US-PATENT-CLASS-330-52				US-PATENT-CLASS-74-385				US-PATENT-CLASS-307-297
			US-PATENT-CLASS-73-646				US-PATENT-CLASS-74-417				US-PATENT-CLASS-323-4
			US-PATENT-4,061,041				US-PATENT-4,068,470				US-PATENT-CLASS-328-172
N78-14889*	c 74		NASA-CASE-KSC-11047-1				NASA-CASE-HQN-10880-1				US-PATENT-3,573,504
			US-PATENT-APPL-SN-715485				US-PATENT-APPL-SN-595254				NASA-CASE-XGS-09186
			US-PATENT-CLASS-179-91R				US-PATENT-CLASS-325-118				US-PATENT-APPL-SN-669911
			US-PATENT-CLASS-250-199				US-PATENT-CLASS-325-66				US-PATENT-CLASS-323-18
			US-PATENT-CLASS-358-142				US-PATENT-CLASS-343-112R				US-PATENT-3,475,675
N78-15180*	c 24		US-PATENT-4,061,577				US-PATENT-CLASS-343-225				NASA-CASE-GSC-10135
			NASA-CASE-ARC-10913-1				US-PATENT-CLASS-362-269				US-PATENT-APPL-SN-764823
			US-PATENT-APPL-SN-698646				US-PATENT-4,067,015				US-PATENT-CLASS-307-53
			US-PATENT-CLASS-106-15FP				NASA-CASE-LAR-11898-2				US-PATENT-CLASS-307-69
			US-PATENT-CLASS-260-2.5N				US-PATENT-APPL-SN-723264				US-PATENT-CLASS-320-53
			US-PATENT-CLASS-260-2.5R				US-PATENT-APPL-SN-799024				US-PATENT-CLASS-323-19
			US-PATENT-CLASS-428-117				US-PATENT-CLASS-156-245				US-PATENT-3,600,599
			US-PATENT-CLASS-428-290				US-PATENT-CLASS-156-285				NASA-CASE-LEW-12508-1
			US-PATENT-CLASS-428-71				US-PATENT-CLASS-156-289				US-PATENT-APPL-SN-746580
			US-PATENT-CLASS-428-73				US-PATENT-CLASS-428-116				US-PATENT-CLASS-62-3
			US-PATENT-CLASS-428-920				US-PATENT-CLASS-428-902				US-PATENT-4,069,028
N78-15210*	c 25		US-PATENT-4,061,812				US-PATENT-4,063,981				NASA-CASE-ARC-10198
			NASA-CASE-LAR-12046-1				NASA-CASE-LAR-12019-1				US-PATENT-APPL-SN-42088
			US-PATENT-APPL-SN-755310				US-PATENT-APPL-SN-792067				US-PATENT-CLASS-165-105
			US-PATENT-CLASS-23-230PC				US-PATENT-CLASS-156-154				US-PATENT-CLASS-165-134
			US-PATENT-CLASS-23-232E				US-PATENT-CLASS-156-264				US-PATENT-3,777,811
			US-PATENT-CLASS-23-232R				US-PATENT-CLASS-156-285				NASA-CASE-ARC-10199
			US-PATENT-CLASS-73-23				US-PATENT-CLASS-156-286				US-PATENT-APPL-SN-824628
			US-PATENT-4,062,650				US-PATENT-CLASS-156-289				US-PATENT-CLASS-165-105
N78-15276*	c 27		NASA-CASE-LEW-12053-1				US-PATENT-CLASS-156-300				US-PATENT-CLASS-165-32
			US-PATENT-APPL-SN-513613				US-PATENT-CLASS-156-306				US-PATENT-CLASS-165-96
			US-PATENT-CLASS-260-2R				US-PATENT-CLASS-156-311				US-PATENT-CLASS-2-2.1
			US-PATENT-CLASS-526-193				US-PATENT-CLASS-264-157				US-PATENT-3,543,839
			US-PATENT-CLASS-526-225				US-PATENT-CLASS-264-190				NASA-CASE-MFS-23194-1
			US-PATENT-CLASS-544-193				US-PATENT-CLASS-428-294				US-PATENT-APPL-SN-629458
			US-PATENT-4,061,856				US-PATENT-CLASS-428-302				US-PATENT-CLASS-350-3.5
N78-15323*	c 32		NASA-CASE-NPO-13836-1				US-PATENT-4,065,340				US-PATENT-4,065,202
			US-PATENT-APPL-SN-699002				NASA-CASE-LAR-12181-1				NASA-CASE-MSC-11242
			US-PATENT-CLASS-178-69.1				US-PATENT-APPL-SN-532784				US-PATENT-APPL-SN-636796
			US-PATENT-CLASS-325-58				US-PATENT-APPL-SN-734901				US-PATENT-CLASS-73-67.2
			US-PATENT-CLASS-325-63				US-PATENT-CLASS-156-309				US-PATENT-3,492,858
			US-PATENT-CLASS-343-179				US-PATENT-CLASS-156-331				NASA-CASE-NPO-11150
			US-PATENT-4,061,974				US-PATENT-CLASS-260-30.4N				US-PATENT-APPL-SN-858950
N78-15461*	c 35		NASA-CASE-NPO-13808-1				US-PATENT-CLASS-260-32.2R				US-PATENT-CLASS-338-100
			US-PATENT-APPL-SN-675328				US-PATENT-CLASS-260-32.6NT				US-PATENT-CLASS-338-36
			US-PATENT-CLASS-250-322				US-PATENT-CLASS-260-33.4R				US-PATENT-CLASS-338-99
			US-PATENT-CLASS-250-416TV				US-PATENT-4,065,345				US-PATENT-3,641,470
			US-PATENT-4,063,092				NASA-CASE-LAR-11902-1				NASA-CASE-MFS-22597
N78-15512*	c 39		NASA-CASE-LAR-12016-1				US-PATENT-APPL-SN-672695				US-PATENT-APPL-SN-395895
			US-PATENT-APPL-SN-754066				US-PATENT-CLASS-106-43				US-PATENT-CLASS-315-108
			US-PATENT-CLASS-73-579				US-PATENT-CLASS-60-200A				US-PATENT-CLASS-331-94.5G
			US-PATENT-CLASS-73-630				US-PATENT-CLASS-75-229				US-PATENT-CLASS-331-94.5T
			US-PATENT-CLASS-73-88F				US-PATENT-CLASS-75-239				US-PATENT-3,882,417
			US-PATENT-4,062,227				US-PATENT-CLASS-75-241				NASA-CASE-MSC-19666-1
N78-15560*	c 44		NASA-CASE-LAR-12009-1				US-PATENT-4,067,742				US-PATENT-APPL-SN-721150
			US-PATENT-APPL-SN-717320				NASA-CASE-MSC-14331-2				US-PATENT-CLASS-118-50
			US-PATENT-CLASS-126-270				US-PATENT-APPL-SN-657907				US-PATENT-CLASS-118-500
			US-PATENT-CLASS-126-400				US-PATENT-CLASS-260-75NH				US-PATENT-CLASS-248-36-3
			US-PATENT-CLASS-237-1A				US-PATENT-CLASS-260-75NK				US-PATENT-CLASS-269-21
			US-PATENT-4,062,347				US-PATENT-CLASS-260-75NT				US-PATENT-CLASS-279-3
N78-15879*	c 74		NASA-CASE-LAR-10385-3				US-PATENT-CLASS-260-77.5AM				US-PATENT-CLASS-51-235
			US-PATENT-APPL-SN-370999				US-PATENT-CLASS-260-77.5AN				US-PATENT-4,066,039
			US-PATENT-APPL-SN-38816				US-PATENT-CLASS-260-77.5AP				NASA-CASE-LEW-12916-1
			US-PATENT-CLASS-350-1				US-PATENT-CLASS-260-77.5AT				US-PATENT-APPL-SN-583056
			US-PATENT-CLASS-428-334				US-PATENT-CLASS-260-77.55P				US-PATENT-CLASS-60-261
			US-PATENT-CLASS-428-336				US-PATENT-4,069,212				US-PATENT-CLASS-60-262
			US-PATENT-CLASS-428-426				NASA-CASE-NPO-10557				US-PATENT-CLASS-60-271
N78-15880*	c 74		US-PATENT-CLASS-428-428				US-PATENT-4,062,996				US-PATENT-APPL-SN-759220
			NASA-CASE-MFS-22409-2				US-PATENT-APPL-SN-445398				US-PATENT-CLASS-260-67
			US-PATENT-APPL-SN-636193				US-PATENT-APPL-SN-572990				US-PATENT-3,538,053
			US-PATENT-CLASS-250-272				US-PATENT-CLASS-185-38				NASA-CASE-NPO-13764-1
			US-PATENT-CLASS-250-320				US-PATENT-CLASS-74-81				US-PATENT-APPL-SN-674194
			US-PATENT-4,063,088				US-PATENT-CLASS-74-83				US-PATENT-CLASS-128-92C
N78-16369*	c 37		NASA-CASE-NPO-13619-1				US-PATENT-4,062,245				US-PATENT-CLASS-128-92G
			US-PATENT-APPL-SN-572990				NASA-CASE-LAR-11490-1				US-PATENT-CLASS-260-42.17
			US-PATENT-CLASS-185-38				US-PATENT-APPL-SN-707125				US-PATENT-CLASS-3-1.9
			US-PATENT-CLASS-74-81				US-PATENT-CLASS-358-106				US-PATENT-4,064,566
			US-PATENT-CLASS-74-83				US-PATENT-4,063,282				NASA-CASE-LEW-11981-1
			US-PATENT-4,062,245				NASA-CASE-XNP-01458				US-PATENT-APPL-SN-672220
N78-16387*	c 39		NASA-CASE-LAR-11490-1				US-PATENT-APPL-SN-160093				US-PATENT-CLASS-313-22
			US-PATENT-APPL-SN-707125				US-PATENT-CLASS-235-70				US-PATENT-CLASS-62-376
			US-PATENT-CLASS-358-106				US-PATENT-3,229,905				US-PATENT-CLASS-62-514R
			US-PATENT-4,063,282				NASA-CASE-LEW-12317-1				US-PATENT-4,068,495
N78-17031*	c 04		NASA-CASE-XNP-01458				US-PATENT-APPL-SN-581750				NASA-CASE-NPO-11978
			US-PATENT-APPL-SN-160093				US-PATENT-CLASS-60-204				US-PATENT-APPL-SN-264268
			US-PATENT-CLASS-235-70				US-PATENT-CLASS-60-226R				US-PATENT-CLASS-313-175
			US-PATENT-3,229,905				US-PATENT-CLASS-60-271				US-PATENT-CLASS-313-176
N78-17055*	c 07		NASA-CASE-LEW-12317-1				US-PATENT-4,068,469				US-PATENT-CLASS-313-180
			US-PATENT-APPL-SN-581750				NASA-CASE-LEW-12390-1				US-PATENT-CLASS-313-184
			US-PATENT-CLASS-60-204				US-PATENT-APPL-SN-522109				US-PATENT-CLASS-313-224
			US-PATENT-CLASS-60-226R				US-PATENT-CLASS-60-226R				US-PATENT-3,769,544
			US-PATENT-CLASS-60-271				US-PATENT-CLASS-74-385				NASA-CASE-XLE-06094
			US-PATENT-4,068,469				US-PATENT-CLASS-74-417				

N78-17385*	c 37	US-PATENT-4,064,692 NASA-CASE-WOO-00625 US-PATENT-APPL-SN-362278 US-PATENT-CLASS-74-800 US-PATENT-3,306,134	N78-18083*	c 09	US-PATENT-CLASS-60-262 US-PATENT-4,069,661 NASA-CASE-ARC-10903-1 US-PATENT-APPL-SN-623536 US-PATENT-CLASS-35-12N US-PATENT-CLASS-358-104 US-PATENT-4,055,004	N78-24275*	c 20	NASA-CASE-LAR-12018-1 US-PATENT-APPL-SN-678520 US-PATENT-CLASS-102-39 US-PATENT-CLASS-102-49.7 US-PATENT-CLASS-102-70R US-PATENT-CLASS-285-192 US-PATENT-CLASS-60-39.82E US-PATENT-4,080,901
N78-17386*	c 37	NASA-CASE-NPO-10151 US-PATENT-APPL-SN-365244 US-PATENT-CLASS-328-233 US-PATENT-3,387,218	N78-18182*	c 26	NASA-CASE-LEW-12095-1 US-PATENT-APPL-SN-651009 US-PATENT-CLASS-75-124 US-PATENT-CLASS-75-126D US-PATENT-CLASS-75-126F US-PATENT-CLASS-75-128G US-PATENT-CLASS-75-128T US-PATENT-4,055,416	N78-24290*	c 24	NASA-CASE-MFS-23506-1 US-PATENT-APPL-SN-760809 US-PATENT-CLASS-260-2.5AK US-PATENT-CLASS-260-2.5AP US-PATENT-CLASS-260-2.5B US-PATENT-CLASS-260-2.5EP US-PATENT-CLASS-260-2.5FP US-PATENT-CLASS-260-29.1R US-PATENT-CLASS-260-37EP US-PATENT-CLASS-427-427 US-PATENT-4,077,921
N78-17395*	c 38	NASA-CASE-NPO-13283 US-PATENT-APPL-SN-401225 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-235-181 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-237 US-PATENT-3,908,118	N78-18183*	c 26	NASA-CASE-LEW-12905-1 US-PATENT-APPL-SN-684171 US-PATENT-CLASS-148-32 US-PATENT-CLASS-148-32.5 US-PATENT-CLASS-75-170 US-PATENT-4,055,447	N78-24333*	c 26	NASA-CASE-MSC-19693-1 US-PATENT-APPL-SN-708771 US-PATENT-CLASS-148-12.7A US-PATENT-CLASS-148-125 US-PATENT-4,077,813
N78-17396*	c 38	NASA-CASE-NPO-13282 US-PATENT-APPL-SN-401224 US-PATENT-CLASS-235-151.3 US-PATENT-CLASS-235-156 US-PATENT-CLASS-250-563 US-PATENT-CLASS-250-572 US-PATENT-CLASS-356-165 US-PATENT-CLASS-356-237 US-PATENT-3,909,602	N78-18308*	c 33	NASA-CASE-FRC-10090-1 US-PATENT-APPL-SN-737974 US-PATENT-CLASS-307-265 US-PATENT-CLASS-307-350 US-PATENT-CLASS-307-360 US-PATENT-CLASS-328-150 US-PATENT-4,055,777	N78-24365*	c 28	NASA-CASE-LEW-12081-1 US-PATENT-APPL-SN-676432 US-PATENT-CLASS-250-492R US-PATENT-CLASS-34-15 US-PATENT-CLASS-423-648R US-PATENT-CLASS-62-100 US-PATENT-CLASS-62-48 US-PATENT-4,077,788
N78-17460*	c 44	NASA-CASE-NPO-13579-1 US-PATENT-APPL-SN-598969 US-PATENT-CLASS-126-263 US-PATENT-CLASS-126-271 US-PATENT-CLASS-165-2 US-PATENT-CLASS-237-1A US-PATENT-CLASS-60-641 US-PATENT-CLASS-62-4 US-PATENT-4,065,053	N78-18355*	c 34	NASA-CASE-LEW-12554-1 US-PATENT-APPL-SN-686449 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-405 US-PATENT-CLASS-427-419A US-PATENT-CLASS-427-423 US-PATENT-CLASS-428-633 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-4,055,089	N78-24391*	c 32	NASA-CASE-NPO-13886-1 US-PATENT-APPL-SN-730045 US-PATENT-CLASS-307-151 US-PATENT-CLASS-343-700MS US-PATENT-CLASS-361-395 US-PATENT-4,079,268
N78-17675*	c 54	NASA-CASE-ARC-11101-1 US-PATENT-APPL-SN-753976 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-36-119 US-PATENT-CLASS-36-92 US-PATENT-4,064,642	N78-18390*	c 35	NASA-CASE-MFS-23008-1 US-PATENT-APPL-SN-665734 US-PATENT-CLASS-73-DIG.11 US-PATENT-CLASS-73-28 US-PATENT-CLASS-73-432PS US-PATENT-CLASS-73-432R US-PATENT-4,055,089	N78-24515*	c 35	NASA-CASE-LAR-11201-1 US-PATENT-APPL-SN-788705 US-PATENT-CLASS-416-144 US-PATENT-CLASS-416-61 US-PATENT-CLASS-73-456 US-PATENT-CLASS-73-756 US-PATENT-4,082,001
N78-17676*	c 54	NASA-CASE-MFS-23311-1 US-PATENT-APPL-SN-708800 US-PATENT-CLASS-214-1CM US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-74-515E US-PATENT-4,068,763	N78-18391*	c 35	NASA-CASE-NPO-13687-1 US-PATENT-APPL-SN-641803 US-PATENT-CLASS-356-106S US-PATENT-CLASS-356-110 US-PATENT-4,053,231	N78-24544*	c 37	NASA-CASE-MSC-16000-1 US-PATENT-APPL-SN-739915 US-PATENT-CLASS-29-156.8R US-PATENT-CLASS-29-23.5 US-PATENT-CLASS-29-244 US-PATENT-CLASS-29-252 US-PATENT-4,078,290
N78-17677*	c 54	NASA-CASE-MSC-13054 US-PATENT-APPL-SN-585217 US-PATENT-CLASS-2-161 US-PATENT-3,490,074	N78-18395* #	c 35	NASA-CASE-NPO-13999-1 US-PATENT-APPL-SN-858596	N78-24545*	c 37	NASA-CASE-LEW-12785-1 US-PATENT-APPL-SN-739909 US-PATENT-CLASS-60-39.28R US-PATENT-4,078,378
N78-17678*	c 54	NASA-CASE-XMS-04670 US-PATENT-APPL-SN-535169 US-PATENT-CLASS-2-2.1 US-PATENT-3,488,771	N78-18410*	c 36	NASA-CASE-NPO-13801-1 US-PATENT-APPL-SN-708796 US-PATENT-CLASS-330-4 US-PATENT-CLASS-332-7.5 US-PATENT-4,055,810	N78-24608*	c 44	NASA-CASE-GSC-12030-1 US-PATENT-APPL-SN-710035 US-PATENT-CLASS-308-10 US-PATENT-CLASS-310-153 US-PATENT-CLASS-310-154 US-PATENT-CLASS-310-178 US-PATENT-CLASS-310-269 US-PATENT-4,077,678
N78-17679*	c 54	NASA-CASE-XMS-04928 US-PATENT-APPL-SN-584914 US-PATENT-CLASS-98-1 US-PATENT-3,487,765	N78-18761*	c 54	NASA-CASE-MSC-10954-1 US-PATENT-APPL-SN-529884 US-PATENT-CLASS-2-2.1 US-PATENT-3,514,785	N78-24609*	c 44	NASA-CASE-GSC-12022-2 US-PATENT-APPL-SN-693074 US-PATENT-CLASS-136-89SG US-PATENT-CLASS-148-174 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-59 US-PATENT-CLASS-427-113 US-PATENT-CLASS-427-248J US-PATENT-CLASS-427-249 US-PATENT-CLASS-427-86 US-PATENT-4,077,818
N78-17680*	c 54	NASA-CASE-XMS-09653 US-PATENT-APPL-SN-538863 US-PATENT-CLASS-2-6 US-PATENT-3,359,568	N78-18905*	c 74	NASA-CASE-GSC-12010-1 US-PATENT-APPL-SN-680958 US-PATENT-CLASS-250-213VT US-PATENT-CLASS-313-442 US-PATENT-CLASS-313-94 US-PATENT-4,070,574	N78-24950*	c 76	NASA-CASE-MFS-23315-1 US-PATENT-APPL-SN-724874 US-PATENT-CLASS-250-277CH US-PATENT-CLASS-250-280 US-PATENT-4,078,175
N78-17691*	c 60	NASA-CASE-GSC-12044-1 US-PATENT-APPL-SN-631341 US-PATENT-CLASS-340-347DD US-PATENT-4,069,478	N78-19302*	c 27	NASA-CASE-NPO-13690-1 US-PATENT-APPL-SN-633876 US-PATENT-CLASS-106-39.5 US-PATENT-CLASS-106-65 US-PATENT-CLASS-106-73.5 US-PATENT-4,072,532	N78-25089*	c 07	NASA-CASE-LEW-12452-1 US-PATENT-APPL-SN-695513 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.52 US-PATENT-4,083,181
N78-17865*	c 74	NASA-CASE-MSC-12618-1 US-PATENT-APPL-SN-651007 US-PATENT-CLASS-350-159 US-PATENT-CLASS-358-225 US-PATENT-CLASS-358-41 US-PATENT-CLASS-358-55 US-PATENT-4,067,043	N78-19465*	c 35	NASA-CASE-ARC-10896-1 US-PATENT-APPL-SN-615030 US-PATENT-CLASS-73-23 US-PATENT-4,055,072	N78-25090*	c 07	NASA-CASE-LEW-11855-1 US-PATENT-APPL-SN-672222 US-PATENT-CLASS-277-134 US-PATENT-CLASS-277-25 US-PATENT-4,084,825
N78-17866*	c 74	NASA-CASE-LAR-11711-1 US-PATENT-APPL-SN-674195 US-PATENT-CLASS-250-201 US-PATENT-CLASS-350-204 US-PATENT-CLASS-356-28 US-PATENT-4,063,814	N78-19466*	c 35	NASA-CASE-ARC-10820-1 US-PATENT-APPL-SN-620675 US-PATENT-CLASS-119-51.11 US-PATENT-CLASS-119-72.5 US-PATENT-CLASS-137-624.11 US-PATENT-4,055,147	N78-25119*	c 15	NASA-CASE-MFS-23564-1 US-PATENT-APPL-SN-739908 US-PATENT-CLASS-244-161 US-PATENT-CLASS-244-167
N78-17867*	c 74	NASA-CASE-NPO-13759-1 US-PATENT-APPL-SN-718266 US-PATENT-CLASS-250-344 US-PATENT-CLASS-356-204 US-PATENT-CLASS-356-246 US-PATENT-4,067,653	N78-19599*	c 44	NASA-CASE-LEW-12159-1 US-PATENT-APPL-SN-643041 US-PATENT-CLASS-126-270 US-PATENT-CLASS-427-160 US-PATENT-CLASS-428-652 US-PATENT-CLASS-428-667 US-PATENT-CLASS-428-679 US-PATENT-4,055,707			
N78-18066*	c 07	NASA-CASE-LEW-12389-2 US-PATENT-APPL-SN-628221 US-PATENT-CLASS-244-53A US-PATENT-CLASS-244-54 US-PATENT-CLASS-60-226R US-PATENT-CLASS-60-39.31 US-PATENT-4,055,041	N78-19920*	c 73	NASA-CASE-HQN-10841-1 US-PATENT-APPL-SN-560891 US-PATENT-CLASS-176-39 US-PATENT-CLASS-330-4.3 US-PATENT-4,075,057			
N78-18067*	c 07	NASA-CASE-LEW-12917-1 US-PATENT-APPL-SN-583055 US-PATENT-CLASS-60-204						

N78-25148*	c 25	US-PATENT-4,083,520 NASA-CASE-LEW-12465-1 US-PATENT-APPL-SN-692413 US-PATENT-CLASS-250-423P US-PATENT-CLASS-250-528 US-PATENT-CLASS-250-531 US-PATENT-CLASS-55-100 US-PATENT-CLASS-55-101 US-PATENT-CLASS-55-2 US-PATENT-4,085,332	N78-27176* #	c 20	NASA-CASE-MFS-23642-2 US-PATENT-APPL-SN-923758	N78-28594*	c 44	US-PATENT-4,088,951 NASA-CASE-NPO-13821-1 US-PATENT-APPL-SN-688852 US-PATENT-CLASS-343-113R US-PATENT-CLASS-343-119 US-PATENT-CLASS-343-16M US-PATENT-4,088,999
N78-25256*	c 31	NASA-CASE-NPO-13839-1 US-PATENT-APPL-SN-712981 US-PATENT-CLASS-250-332 US-PATENT-CLASS-313-22 US-PATENT-CLASS-62-514R US-PATENT-4,077,231	N78-27180*	c 24	NASA-CASE-ARC-11043-1 US-PATENT-APPL-SN-753964 US-PATENT-CLASS-260-33.6EP US-PATENT-CLASS-260-33.6PQ US-PATENT-CLASS-260-33.8EP US-PATENT-CLASS-260-33.8UA US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-42.43 US-PATENT-CLASS-260-45.7R US-PATENT-CLASS-260-45.75W US-PATENT-CLASS-260-45.85N US-PATENT-CLASS-260-45.9R US-PATENT-CLASS-427-386 US-PATENT-CLASS-427-388A US-PATENT-CLASS-428-313 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-921 US-PATENT-4,088,806	N78-28913*	c 73	NASA-CASE-NPO-13114-2 US-PATENT-APPL-SN-294738 US-PATENT-APPL-SN-634214 US-PATENT-CLASS-176-22 US-PATENT-CLASS-176-33 US-PATENT-CLASS-176-39 US-PATENT-4,085,004
N78-25319*	c 33	NASA-CASE-NPO-13909-1 US-PATENT-APPL-SN-744477 US-PATENT-CLASS-324-57DE US-PATENT-CLASS-324-57SS US-PATENT-CLASS-324-58A US-PATENT-4,084,132	N78-27184* #	c 24	NASA-CASE-ARC-11040-2 US-PATENT-APPL-SN-920878	N78-29421*	c 35	NASA-CASE-NPO-11954-1 US-PATENT-APPL-SN-229287 US-PATENT-CLASS-179-100.2CH US-PATENT-CLASS-340-174.1M US-PATENT-CLASS-340-174YC US-PATENT-CLASS-350-151 US-PATENT-3,775,570
N78-25350*	c 34	NASA-CASE-MS-19568-1 US-PATENT-APPL-SN-681000 US-PATENT-CLASS-428-913 US-PATENT-CLASS-428-93 US-PATENT-CLASS-428-94 US-PATENT-CLASS-428-95 US-PATENT-CLASS-428-96 US-PATENT-CLASS-428-97 US-PATENT-CLASS-49-DIG.1 US-PATENT-CLASS-49-479 US-PATENT-CLASS-49-485 US-PATENT-4,078,110	N78-27226*	c 25	NASA-CASE-LEW-10518-3 US-PATENT-APPL-SN-394207 US-PATENT-CLASS-176-11 US-PATENT-CLASS-176-16 US-PATENT-CLASS-250-400 US-PATENT-CLASS-250-429 US-PATENT-CLASS-250-492B US-PATENT-4,088,532	N78-31129*	c 09	NASA-CASE-MS-19706-1 US-PATENT-APPL-SN-767911 US-PATENT-CLASS-239-265.25 US-PATENT-CLASS-73-147 US-PATENT-4,091,665
N78-25351*	c 34	NASA-CASE-LEW-12718-1 US-PATENT-APPL-SN-779428 US-PATENT-CLASS-137-484.2 US-PATENT-CLASS-137-501 US-PATENT-CLASS-137-505.16 US-PATENT-4,084,612	N78-27326*	c 33	NASA-CASE-MFS-23312-1 US-PATENT-APPL-SN-699012 US-PATENT-CLASS-29-571 US-PATENT-CLASS-29-578 US-PATENT-CLASS-357-91 US-PATENT-4,087,902	N78-31232*	c 27	NASA-CASE-ARC-11008-1 US-PATENT-APPL-SN-708951 US-PATENT-CLASS-260-2.5N US-PATENT-CLASS-260-47CP US-PATENT-CLASS-260-63N US-PATENT-CLASS-260-78.41 US-PATENT-4,092,274
N78-25391*	c 35	NASA-CASE-NPO-13948-1 US-PATENT-APPL-SN-752748 US-PATENT-CLASS-204-195W US-PATENT-CLASS-73-336.5 US-PATENT-4,083,765	N78-27357*	c 34	NASA-CASE-LEW-11877-1 US-PATENT-APPL-SN-708660 US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-328 US-PATENT-CLASS-431-7 US-PATENT-CLASS-60-39.65 US-PATENT-CLASS-60-39.69R US-PATENT-4,087,962	N78-31233*	c 27	NASA-CASE-ARC-11057-1 US-PATENT-APPL-SN-807762 US-PATENT-CLASS-350-165 US-PATENT-CLASS-350-175NG US-PATENT-CLASS-427-164 US-PATENT-CLASS-427-40 US-PATENT-CLASS-427-41 US-PATENT-CLASS-428-411 US-PATENT-CLASS-428-412 US-PATENT-CLASS-428-422 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-515 US-PATENT-CLASS-428-523 US-PATENT-CLASS-428-538 US-PATENT-4,091,166
N78-25426*	c 37	NASA-CASE-MS-12731-1 US-PATENT-APPL-SN-690816 US-PATENT-CLASS-137-505.25 US-PATENT-CLASS-137-625.3 US-PATENT-CLASS-137-625.38 US-PATENT-4,083,380	N78-27384*	c 35	NASA-CASE-LAR-11973-1 US-PATENT-APPL-SN-821681 US-PATENT-CLASS-73-170A US-PATENT-CLASS-73-425.4R US-PATENT-CLASS-73-61R US-PATENT-4,089,209	N78-31255*	c 28	NASA-CASE-NPO-14103-1 US-PATENT-APPL-SN-797210 US-PATENT-CLASS-149-105 US-PATENT-CLASS-149-111 US-PATENT-CLASS-149-19.4 US-PATENT-CLASS-149-19.8 US-PATENT-CLASS-149-88 US-PATENT-CLASS-149-92 US-PATENT-CLASS-149-93 US-PATENT-4,092,188
N78-25527*	c 44	NASA-CASE-LEW-12552-1 US-PATENT-APPL-SN-770869 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-75 US-PATENT-4,082,569	N78-27402*	c 36	NASA-CASE-NPO-13945-1 US-PATENT-APPL-SN-704180 US-PATENT-CLASS-331-94.5G US-PATENT-CLASS-331-94.5P US-PATENT-CLASS-331-94.5PE US-PATENT-4,088,965	N78-31321*	c 32	NASA-CASE-NPO-14022-1 US-PATENT-APPL-SN-780728 US-PATENT-CLASS-343-781CA US-PATENT-CLASS-343-782 US-PATENT-CLASS-343-837 US-PATENT-4,092,648
N78-25528*	c 44	NASA-CASE-LEW-12185-1 US-PATENT-APPL-SN-746269 US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-628 US-PATENT-4,083,097	N78-27423*	c 37	NASA-CASE-MS-16270-1 US-PATENT-APPL-SN-837260 US-PATENT-CLASS-269-21 US-PATENT-CLASS-269-266 US-PATENT-4,088,312	N78-31426*	c 37	NASA-CASE-GSC-11883-2 US-PATENT-APPL-SN-596787 US-PATENT-APPL-SN-747675 US-PATENT-CLASS-60-527 US-PATENT-CLASS-74-100R US-PATENT-4,010,455 US-PATENT-4,092,874
N78-25529*	c 44	NASA-CASE-LEW-12541-1 US-PATENT-APPL-SN-790637 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89H US-PATENT-CLASS-136-89P US-PATENT-CLASS-156-633 US-PATENT-CLASS-29-572 US-PATENT-4,084,985	N78-27424*	c 37	NASA-CASE-LAR-11889-2 US-PATENT-APPL-SN-662182 US-PATENT-APPL-SN-807703 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,088,018	N78-31525*	c 44	NASA-CASE-NPO-13581-2 US-PATENT-APPL-SN-590975 US-PATENT-APPL-SN-811815 US-PATENT-CLASS-126-271 US-PATENT-CLASS-237-1A US-PATENT-4,091,800
N78-25530*	c 44	NASA-CASE-LEW-12649-1 US-PATENT-APPL-SN-720521 US-PATENT-CLASS-427-385B US-PATENT-CLASS-427-385C US-PATENT-CLASS-429-254 US-PATENT-4,085,241	N78-27425*	c 37	NASA-CASE-ARC-10981-1 US-PATENT-APPL-SN-738218 US-PATENT-CLASS-248-178 US-PATENT-CLASS-248-186 US-PATENT-4,088,291	N78-31526*	c 44	NASA-CASE-NPO-13813-1 NASA-CASE-NPO-13914-1 US-PATENT-APPL-SN-765139 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-299 US-PATENT-4,091,798
N78-25531*	c 44	NASA-CASE-MFS-23270-1 US-PATENT-APPL-SN-744573 US-PATENT-CLASS-320-13 US-PATENT-CLASS-320-15 US-PATENT-CLASS-320-32 US-PATENT-CLASS-320-39 US-PATENT-CLASS-320-9 US-PATENT-4,084,124	N78-27515*	c 44	NASA-CASE-NPO-12148-1 US-PATENT-APPL-SN-709415 US-PATENT-CLASS-136-89P US-PATENT-4,089,705	N78-31735*	c 54	NASA-CASE-ARC-11058-1 US-PATENT-APPL-SN-753965 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,464
N78-27121*	c 07	NASA-CASE-LAR-11919-1 US-PATENT-APPL-SN-672221 US-PATENT-CLASS-239-265.25 US-PATENT-CLASS-239-265.33 US-PATENT-CLASS-60-230 US-PATENT-4,088,270	N78-27733*	c 51	NASA-CASE-ARC-10917-1 US-PATENT-APPL-SN-672223 US-PATENT-CLASS-119-29 US-PATENT-4,088,094	N78-31736*	c 54	NASA-CASE-ARC-11100-1
			N78-27904*	c 74	NASA-CASE-LAR-11869-1 US-PATENT-APPL-SN-740155 US-PATENT-CLASS-356-120 US-PATENT-CLASS-356-167 US-PATENT-4,088,408			
			N78-27913*	c 75	NASA-CASE-MFS-22906-1 US-PATENT-APPL-SN-684807 US-PATENT-CLASS-29-81C US-PATENT-CLASS-313-231.3 US-PATENT-CLASS-315-111.2 US-PATENT-4,088,926			
			N78-28411*	c 35	NASA-CASE-KSC-11035-1 US-PATENT-APPL-SN-780874 US-PATENT-CLASS-324-130 US-PATENT-CLASS-324-32 US-PATENT-CLASS-324-74			

		US-PATENT-APPL-SN-780569	N78-32340*	c 33	NASA-CASE-GSC-12146-1	US-PATENT-CLASS-123-3
		US-PATENT-CLASS-2-2.1A			US-PATENT-APPL-SN-782480	US-PATENT-4,112,875
		US-PATENT-4,091,465			US-PATENT-CLASS-325-159	N78-33913* c 74 NASA-CASE-NPO-10233-1
N78-32086*	c 05	NASA-CASE-LAR-11932-1			US-PATENT-CLASS-325-187	US-PATENT-APPL-SN-716885
		US-PATENT-APPL-SN-718244			US-PATENT-CLASS-333-17R	US-PATENT-CLASS-250-218
		US-PATENT-CLASS-244-218			US-PATENT-CLASS-333-81R	US-PATENT-CLASS-250-227
		US-PATENT-CLASS-244-45A			US-PATENT-4,092,617	US-PATENT-CLASS-250-239
		US-PATENT-CLASS-244-46	N78-32341*	c 33	NASA-CASE-LEW-12791-1	US-PATENT-CLASS-356-208
		US-PATENT-4,093,156			US-PATENT-APPL-SN-801432	US-PATENT-3,573,470
N78-32168* #	c 15	NASA-CASE-LAR-12264-1			US-PATENT-CLASS-363-101	N79-10057* c 07 NASA-CASE-LEW-12232-1
		US-PATENT-APPL-SN-943087			US-PATENT-CLASS-363-16	US-PATENT-APPL-SN-776029
N78-32179*	c 20	NASA-CASE-NPO-11458A			US-PATENT-CLASS-363-60	US-PATENT-CLASS-415-115
		US-PATENT-APPL-SN-48621			US-PATENT-4,092,712	US-PATENT-CLASS-415-116
		US-PATENT-CLASS-102-103	N78-32395*	c 35	NASA-CASE-ARC-11036-1	US-PATENT-CLASS-60-39.14
		US-PATENT-CLASS-149-19.4			US-PATENT-APPL-SN-740457	US-PATENT-4,117,669
		US-PATENT-CLASS-149-42			US-PATENT-CLASS-33-366	N79-10162* c 25 NASA-CASE-ARC-11053-1
		US-PATENT-CLASS-149-43			US-PATENT-4,094,073	US-PATENT-APPL-SN-814378
		US-PATENT-CLASS-149-44	N78-32396*	c 35	NASA-CASE-MFS-23363-1	US-PATENT-CLASS-23-252R
		US-PATENT-CLASS-149-76			US-PATENT-APPL-SN-730046	US-PATENT-CLASS-423-581
		US-PATENT-CLASS-149-83			US-PATENT-CLASS-324-173	US-PATENT-4,101,644
		US-PATENT-CLASS-149-85			US-PATENT-CLASS-324-207	N79-10163* c 25 NASA-CASE-NPO-13274-1
		US-PATENT-4,116,131			US-PATENT-4,093,917	US-PATENT-APPL-SN-406296
N78-32229*	c 26	NASA-CASE-ARC-10992-1	N78-32397*	c 35	NASA-CASE-LAR-11617-2	US-PATENT-CLASS-204-180S
		US-PATENT-APPL-SN-760810			US-PATENT-APPL-SN-547072	US-PATENT-CLASS-204-299
		US-PATENT-CLASS-204-164			US-PATENT-APPL-SN-668771	US-PATENT-3,932,262
		US-PATENT-CLASS-204-175			US-PATENT-CLASS-324-249	N79-10262* c 32 NASA-CASE-NPO-13941-1
		US-PATENT-CLASS-423-582			US-PATENT-4,088,954	US-PATENT-APPL-SN-774384
		US-PATENT-CLASS-423-583	N78-32447*	c 38	NASA-CASE-MFS-23114-1	US-PATENT-CLASS-307-233R
		US-PATENT-4,094,758			US-PATENT-APPL-SN-686331	US-PATENT-CLASS-324-77B
N78-32256*	c 27	NASA-CASE-MS-14903-1			US-PATENT-CLASS-350-3.5	US-PATENT-CLASS-324-77C
		US-PATENT-APPL-SN-706424			US-PATENT-CLASS-356-72	US-PATENT-4,118,666
		US-PATENT-CLASS-260-2P			US-PATENT-CLASS-356-73	N79-10263* c 32 NASA-CASE-MS-12743-1
		US-PATENT-CLASS-260-551P			US-PATENT-CLASS-73-603	US-PATENT-APPL-SN-765167
		US-PATENT-CLASS-260-606-5P			US-PATENT-4,093,382	US-PATENT-CLASS-325-41
		US-PATENT-CLASS-260-959	N78-32539*	c 44	NASA-CASE-LAR-11208-1	US-PATENT-CLASS-340-146.1AX
		US-PATENT-CLASS-526-13			US-PATENT-APPL-SN-710036	US-PATENT-CLASS-340-146.1E
		US-PATENT-CLASS-526-23			US-PATENT-CLASS-417-88	US-PATENT-4,100,531
		US-PATENT-CLASS-526-27			US-PATENT-CLASS-60-39.07	N79-10264* c 32 NASA-CASE-MFS-22234-1
		US-PATENT-CLASS-526-275			US-PATENT-CLASS-60-39.14	US-PATENT-APPL-SN-730778
		US-PATENT-CLASS-526-276			US-PATENT-CLASS-60-39.33	US-PATENT-CLASS-343-6R
		US-PATENT-CLASS-526-278			US-PATENT-CLASS-98-1.5	US-PATENT-CLASS-343-9
		US-PATENT-CLASS-526-49			US-PATENT-4,091,613	US-PATENT-4,118,701
		US-PATENT-CLASS-526-50	N78-32542*	c 44	NASA-CASE-KSC-11034-1	N79-10337* c 33 NASA-CASE-KSC-11018-1
		US-PATENT-CLASS-544-195			US-PATENT-APPL-SN-782481	US-PATENT-APPL-SN-782693
		US-PATENT-4,092,466			US-PATENT-CLASS-60-641	US-PATENT-CLASS-324-133
N78-32260*	c 27	NASA-CASE-ARC-11051-1			US-PATENT-CLASS-60-671	US-PATENT-CLASS-324-72
		US-PATENT-APPL-SN-736910			US-PATENT-4,087,975	US-PATENT-CLASS-324-96
		US-PATENT-CLASS-106-48	N78-32720*	c 54	NASA-CASE-MS-14805-1	US-PATENT-4,100,487
		US-PATENT-CLASS-106-54			US-PATENT-APPL-SN-688856	N79-10338* c 33 NASA-CASE-GSC-12228-1
		US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-213R	US-PATENT-APPL-SN-858764
		US-PATENT-CLASS-427-376A			US-PATENT-CLASS-340-262	US-PATENT-CLASS-324-57R
		US-PATENT-CLASS-427-376B			US-PATENT-CLASS-340-279	US-PATENT-CLASS-324-83D
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-340-285	US-PATENT-CLASS-324-85
		US-PATENT-CLASS-427-380			US-PATENT-CLASS-340-309.1	US-PATENT-CLASS-328-163
		US-PATENT-CLASS-428-312			US-PATENT-4,092,633	US-PATENT-4,118,665
		US-PATENT-CLASS-428-325	N78-32721*	c 54	NASA-CASE-ARC-11059-1	N79-10339* c 33 NASA-CASE-LEW-12013-1
		US-PATENT-CLASS-428-331			US-PATENT-APPL-SN-753978	US-PATENT-APPL-SN-768795
		US-PATENT-CLASS-428-341			US-PATENT-CLASS-128-142.7	US-PATENT-CLASS-301-82
		US-PATENT-CLASS-428-406			US-PATENT-CLASS-62-259	US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-428-427			US-PATENT-4,095,593	US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-428-428	N78-32848*	c 73	NASA-CASE-GSC-12083-1	US-PATENT-CLASS-330-43
		US-PATENT-CLASS-428-446			US-PATENT-APPL-SN-643897	US-PATENT-4,118,671
		US-PATENT-CLASS-428-920			US-PATENT-CLASS-350-170	N79-10389* c 35 NASA-CASE-MFS-23461-1
		US-PATENT-CLASS-65-30R			US-PATENT-CLASS-350-173	US-PATENT-APPL-SN-694406
		US-PATENT-CLASS-65-60D			US-PATENT-CLASS-350-174	US-PATENT-CLASS-250-475
		US-PATENT-4,093,771			US-PATENT-CLASS-350-286	US-PATENT-CLASS-252-301.1R
N78-32261*	c 27	NASA-CASE-LAR-11828-1			US-PATENT-CLASS-350-320	US-PATENT-CLASS-252-301.16
		US-PATENT-APPL-SN-448321			US-PATENT-4,093,354	US-PATENT-CLASS-96-27R
		US-PATENT-APPL-SN-562992	N78-32854*	c 74	NASA-CASE-ARC-11039-1	US-PATENT-CLASS-96-60R
		US-PATENT-CLASS-260-47CP			US-PATENT-APPL-SN-750655	US-PATENT-4,101,780
		US-PATENT-CLASS-260-63N			US-PATENT-CLASS-351-166	N79-10390* c 35 NASA-CASE-LAR-12260-1
		US-PATENT-CLASS-260-63R			US-PATENT-CLASS-427-164	US-PATENT-CLASS-73-579
		US-PATENT-CLASS-260-65			US-PATENT-CLASS-427-302	US-PATENT-CLASS-73-589
		US-PATENT-CLASS-260-78TF			US-PATENT-CLASS-427-322	US-PATENT-4,117,731
		US-PATENT-4,094,862			US-PATENT-CLASS-427-38	N79-10391* c 35 NASA-CASE-NPO-13862-1
N78-32262*	c 27	NASA-CASE-MS-14331-3			US-PATENT-CLASS-427-387	US-PATENT-APPL-SN-744577
		US-PATENT-APPL-SN-657998			US-PATENT-CLASS-427-41	US-PATENT-CLASS-324-77K
		US-PATENT-CLASS-264-130			US-PATENT-CLASS-427-44	US-PATENT-CLASS-343-17.2PC
		US-PATENT-CLASS-264-184			US-PATENT-CLASS-428-412	US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-264-211			US-PATENT-CLASS-428-447	US-PATENT-CLASS-343-5W
		US-PATENT-CLASS-264-236			US-PATENT-4,096,315	US-PATENT-4,101,891
		US-PATENT-4,094,943	N78-33101*	c 07	NASA-CASE-LEW-12496-1	N79-10418* c 37 NASA-CASE-LEW-12569-1
N78-32338*	c 33	NASA-CASE-GSC-12137-1			US-PATENT-APPL-SN-668971	US-PATENT-APPL-SN-792069
		US-PATENT-APPL-SN-808510			US-PATENT-CLASS-29-463	US-PATENT-CLASS-308-DIG.1
		US-PATENT-CLASS-329-124			US-PATENT-CLASS-416-214A	US-PATENT-CLASS-308-121
		US-PATENT-CLASS-331-12			US-PATENT-CLASS-416-244A	US-PATENT-CLASS-308-160
		US-PATENT-CLASS-331-4			US-PATENT-CLASS-74-572	US-PATENT-CLASS-308-163
		US-PATENT-CLASS-331-64			US-PATENT-4,097,194	US-PATENT-CLASS-308-172
		US-PATENT-4,092,606	N78-33228*	c 27	NASA-CASE-NPO-08835-1	US-PATENT-CLASS-308-5R
N78-32339*	c 33	NASA-CASE-GSC-12145-1			US-PATENT-APPL-SN-588721	US-PATENT-CLASS-308-9
		US-PATENT-APPL-SN-769149			US-PATENT-CLASS-260-28.5	US-PATENT-4,099,799
		US-PATENT-CLASS-307-229			US-PATENT-3,527,724	N79-10419* c 37 NASA-CASE-FRC-10111-1
		US-PATENT-CLASS-307-230	N78-33526*	c 44	NASA-CASE-NPO-13763-1	US-PATENT-APPL-SN-713027
		US-PATENT-CLASS-328-145			US-PATENT-APPL-SN-718268	US-PATENT-CLASS-30-90.6
		US-PATENT-4,091,329			US-PATENT-CLASS-123-DIG.12	US-PATENT-CLASS-81-9.5R
					US-PATENT-CLASS-123-1A	US-PATENT-4,117,749

N79-10420*	c 37	NASA-CASE-NPO-14014-1 US-PATENT-APPL-SN-826204 US-PATENT-CLASS-188-1C US-PATENT-CLASS-256-1 US-PATENT-CLASS-256-13.1 US-PATENT-4,118,014	US-PATENT-CLASS-325-4 US-PATENT-CLASS-325-67 US-PATENT-CLASS-343-17.7 US-PATENT-4,119,964	US-PATENT-CLASS-427-84 US-PATENT-4,122,214
N79-10421*	c 37	NASA-CASE-MFS-23620-1 US-PATENT-APPL-SN-799023 US-PATENT-CLASS-219-124.2.2 US-PATENT-CLASS-219-124.32 US-PATENT-CLASS-219-125.1 US-PATENT-CLASS-228-8 US-PATENT-4,118,620	N79-11313* c 33 NASA-CASE-MSC-16461-1 US-PATENT-APPL-SN-858765 US-PATENT-CLASS-307-232 US-PATENT-CLASS-328-133 US-PATENT-CLASS-331-1A US-PATENT-CLASS-331-14 US-PATENT-CLASS-331-23 US-PATENT-CLASS-331-27 US-PATENT-4,119,926	N79-11865* c 74 NASA-CASE-MFS-23513-1 US-PATENT-APPL-SN-755323 US-PATENT-CLASS-356-124 US-PATENT-CLASS-356-210 US-PATENT-4,102,580
N79-10422*	c 37	NASA-CASE-MFS-23051-1 US-PATENT-APPL-SN-632111 US-PATENT-CLASS-15-230.16 US-PATENT-CLASS-15-230.17 US-PATENT-CLASS-29-125 US-PATENT-CLASS-428-133 US-PATENT-CLASS-74-572 US-PATENT-4,098,142	N79-11314* c 33 NASA-CASE-NPO-13064-1 US-PATENT-APPL-SN-297436 US-PATENT-CLASS-357-22 US-PATENT-3,860,946	N79-11920* c 76 NASA-CASE-NPO-13918-1 US-PATENT-APPL-SN-706073 US-PATENT-CLASS-156-DIG.64 US-PATENT-CLASS-156-DIG.65 US-PATENT-CLASS-156-DIG.88 US-PATENT-CLASS-156-608 US-PATENT-CLASS-156-617SP US-PATENT-4,121,965
N79-10513*	c 44	NASA-CASE-NPO-13732-1 US-PATENT-APPL-SN-765138 US-PATENT-CLASS-429-13 US-PATENT-CLASS-429-41 US-PATENT-4,100,331	N79-11315* c 33 NASA-CASE-KSC-11031-1 US-PATENT-APPL-SN-782482 US-PATENT-CLASS-324-102 US-PATENT-CLASS-324-113 US-PATENT-CLASS-324-133 US-PATENT-4,105,966	N79-12061* c 05 NASA-CASE-FRC-10092-1 US-PATENT-APPL-SN-831634 US-PATENT-CLASS-244-48 US-PATENT-CLASS-244-82 US-PATENT-CLASS-244-90R US-PATENT-4,124,180
N79-10693*	c 51	NASA-CASE-MSC-16098-1 US-PATENT-APPL-SN-792068 US-PATENT-CLASS-210-23F US-PATENT-CLASS-210-433M US-PATENT-CLASS-210-96M US-PATENT-4,118,315	N79-11402* c 37 NASA-CASE-MSC-16043-1 US-PATENT-APPL-SN-750792 US-PATENT-CLASS-137-614.06 US-PATENT-CLASS-137-637.05 US-PATENT-CLASS-251-149.9 US-PATENT-CLASS-285-326 US-PATENT-CLASS-285-359 US-PATENT-4,103,712	N79-12221* c 27 NASA-CASE-MSC-12619-2 US-PATENT-APPL-SN-555750 US-PATENT-APPL-SN-786913 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158 US-PATENT-CLASS-244-160 US-PATENT-CLASS-428-189 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-280 US-PATENT-CLASS-428-285 US-PATENT-CLASS-428-286 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-450 US-PATENT-CLASS-428-77 US-PATENT-CLASS-428-920 US-PATENT-4,124,732
N79-10694*	c 51	NASA-CASE-GSC-12173-1 US-PATENT-APPL-SN-806440 US-PATENT-CLASS-165-2 US-PATENT-CLASS-165-30 US-PATENT-CLASS-195-1.8 US-PATENT-CLASS-219-299 US-PATENT-CLASS-219-302 US-PATENT-CLASS-62-514R US-PATENT-CLASS-62-78 US-PATENT-4,117,881	N79-11403* c 37 NASA-CASE-LEW-12793-1 US-PATENT-APPL-SN-745766 US-PATENT-CLASS-60-39.08 US-PATENT-CLASS-60-39.28R US-PATENT-CLASS-60-39.66 US-PATENT-4,104,873	N79-12321* c 33 NASA-CASE-GSC-12190-1 US-PATENT-APPL-SN-817413 US-PATENT-CLASS-357-22 US-PATENT-CLASS-357-23 US-PATENT-CLASS-357-41 US-PATENT-CLASS-357-45 US-PATENT-CLASS-357-55 US-PATENT-4,119,996
N79-10724*	c 52	NASA-CASE-ARC-10985-1 US-PATENT-APPL-SN-769148 US-PATENT-CLASS-128-2.05R US-PATENT-CLASS-358-111 US-PATENT-CLASS-358-96 US-PATENT-CLASS-364-417 US-PATENT-4,101,961	N79-11404* c 37 NASA-CASE-MFS-23447-1 US-PATENT-APPL-SN-736909 US-PATENT-CLASS-308-194 US-PATENT-CLASS-308-72 US-PATENT-4,105,261	N79-12331* c 33 NASA-CASE-MSC-12662-1 US-PATENT-APPL-SN-540779 US-PATENT-CLASS-428-109 US-PATENT-CLASS-428-247 US-PATENT-CLASS-428-258 US-PATENT-CLASS-428-259 US-PATENT-4,107,363
N79-10969*	c 89	NASA-CASE-MFS-23675-1 US-PATENT-APPL-SN-820498 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-55 US-PATENT-4,101,195	N79-11405* c 37 NASA-CASE-NPO-13828-1 US-PATENT-APPL-SN-672636 US-PATENT-CLASS-123-148DC US-PATENT-CLASS-123-148E US-PATENT-CLASS-315-209DC US-PATENT-CLASS-315-209SC US-PATENT-CLASS-315-241R US-PATENT-4,122,816	N79-12359* c 34 NASA-CASE-LAR-11729-1 US-PATENT-APPL-SN-856461 US-PATENT-CLASS-73-189 US-PATENT-CLASS-73-194VS US-PATENT-4,122,712
N79-11108*	c 18	NASA-CASE-MFS-23579-1 US-PATENT-APPL-SN-829316 US-PATENT-CLASS-228-13 US-PATENT-CLASS-228-15.1 US-PATENT-CLASS-228-173 US-PATENT-CLASS-244-159 US-PATENT-4,122,991	N79-11467* c 44 NASA-CASE-LEW-12819-1 US-PATENT-APPL-SN-803823 US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89SJ US-PATENT-CLASS-357-15 US-PATENT-CLASS-357-16 US-PATENT-CLASS-357-30 US-PATENT-CLASS-357-65 US-PATENT-CLASS-357-67 US-PATENT-4,104,084	N79-12541* c 44 NASA-CASE-NPO-14100-1 US-PATENT-APPL-SN-861391 US-PATENT-CLASS-324-20R US-PATENT-CLASS-324-22 US-PATENT-4,122,383
N79-11151*	c 25	NASA-CASE-NPO-13958-1 US-PATENT-APPL-SN-745384 US-PATENT-CLASS-126-91A US-PATENT-CLASS-431-10 US-PATENT-CLASS-431-208 US-PATENT-CLASS-432-223 US-PATENT-CLASS-432-29 US-PATENT-4,104,018	N79-11468* c 44 NASA-CASE-LEW-12775-1 US-PATENT-APPL-SN-799026 US-PATENT-CLASS-136-89 US-PATENT-CLASS-148-188 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-75 US-PATENT-4,104,091	N79-12584* c 45 NASA-CASE-MSC-16258-1 US-PATENT-APPL-SN-853705 US-PATENT-CLASS-210-50 US-PATENT-CLASS-210-60 US-PATENT-CLASS-210-63R US-PATENT-CLASS-423-242 US-PATENT-CLASS-55-73 US-PATENT-4,123,355
N79-11152*	c 25	NASA-CASE-NPO-13904-1 US-PATENT-APPL-SN-730468 US-PATENT-CLASS-208-10 US-PATENT-CLASS-208-8 US-PATENT-CLASS-302-66 US-PATENT-CLASS-44-51 US-PATENT-4,121,995	N79-11469* c 44 NASA-CASE-MFS-23518-1 US-PATENT-APPL-SN-829390 US-PATENT-CLASS-204-32 US-PATENT-CLASS-204-33 US-PATENT-CLASS-204-37R US-PATENT-CLASS-204-38B US-PATENT-4,104,134	N79-12694* c 52 NASA-CASE-NPO-13913-1 US-PATENT-APPL-SN-687251 US-PATENT-CLASS-128-2R US-PATENT-CLASS-364-120 US-PATENT-CLASS-364-300 US-PATENT-CLASS-364-415 US-PATENT-CLASS-364-900 US-PATENT-4,122,518
N79-11215* #	c 27	NASA-CASE-ARC-11170-1 US-PATENT-APPL-SN-956161	N79-11470* c 44 NASA-CASE-NPO-14126-1 US-PATENT-APPL-SN-838336 US-PATENT-CLASS-204-157.1R US-PATENT-CLASS-250-527 US-PATENT-4,105,517	N79-12890* c 74 NASA-CASE-KSC-11010-1 US-PATENT-APPL-SN-753977 US-PATENT-CLASS-200-46 US-PATENT-CLASS-200-61 US-PATENT-CLASS-250-214AL US-PATENT-CLASS-250-214R US-PATENT-CLASS-315-153 US-PATENT-4,122,334
N79-11231*	c 28	NASA-CASE-NPO-13858-1 NASA-CASE-NPO-13859-1 US-PATENT-APPL-SN-740153 US-PATENT-CLASS-102-28R US-PATENT-4,103,619	N79-11471* c 44 NASA-CASE-NPO-13817-1 US-PATENT-APPL-SN-801452 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,122,833	N79-13214* c 32 NASA-CASE-NPO-14009-1 US-PATENT-APPL-SN-818917 US-PATENT-CLASS-343-117R US-PATENT-CLASS-343-118 US-PATENT-CLASS-343-7.4 US-PATENT-4,122,454
N79-11246*	c 31	NASA-CASE-LAR-12147-1 US-PATENT-APPL-SN-733825 US-PATENT-CLASS-73-159 US-PATENT-CLASS-73-95 US-PATENT-4,103,550	N79-11472* c 44 NASA-CASE-LEW-12552-2 US-PATENT-APPL-SN-844346 US-PATENT-CLASS-29-572 US-PATENT-CLASS-427-123 US-PATENT-CLASS-427-126 US-PATENT-CLASS-427-261 US-PATENT-CLASS-427-343 US-PATENT-CLASS-427-398A US-PATENT-CLASS-427-399 US-PATENT-CLASS-427-75	N79-13288* c 34 NASA-CASE-LEW-12252-1 US-PATENT-APPL-SN-559847 US-PATENT-CLASS-165-169
N79-11264*	c 32	NASA-CASE-MSC-14939-1 US-PATENT-APPL-SN-765165 US-PATENT-CLASS-343-844 US-PATENT-CLASS-343-854 US-PATENT-4,119,972		
N79-11265*	c 32	NASA-CASE-GSC-12150-1 US-PATENT-APPL-SN-736286		

		US-PATENT-CLASS-239-127.1			US-PATENT-APPL-SN-782464			US-PATENT-CLASS-126-271
		US-PATENT-CLASS-60-267			US-PATENT-CLASS-329-122			US-PATENT-CLASS-350-292
		US-PATENT-4,107,919			US-PATENT-CLASS-343-14			US-PATENT-CLASS-350-293
N79-13289*	c 34	NASA-CASE-LEW-12441-1			US-PATENT-CLASS-364-458			US-PATENT-CLASS-350-320
		US-PATENT-APPL-SN-559846			US-PATENT-CLASS-364-604			US-PATENT-4,131,336
		US-PATENT-CLASS-165-146			US-PATENT-CLASS-364-728	N79-14749*	c 52	NASA-CASE-NPO-13930-1
		US-PATENT-CLASS-165-169			US-PATENT-4,112,497			US-PATENT-APPL-SN-700467
		US-PATENT-CLASS-239-127.1	N79-14268*	c 32	NASA-CASE-NPO-14019-1			US-PATENT-CLASS-128-214D
		US-PATENT-CLASS-60-267			US-PATENT-APPL-SN-843308			US-PATENT-CLASS-128-272
		US-PATENT-4,108,241			US-PATENT-CLASS-343-100CL			US-PATENT-CLASS-150-1
N79-13364*	c 37	NASA-CASE-LAR-10941-2			US-PATENT-CLASS-343-5CM			US-PATENT-CLASS-195-1.8
		US-PATENT-APPL-SN-395493			US-PATENT-4,132,989			US-PATENT-CLASS-206-439
		US-PATENT-CLASS-228-107	N79-14305*	c 33	NASA-CASE-KSC-11057-1			US-PATENT-CLASS-210-DIG.23
		US-PATENT-CLASS-228-2.5			US-PATENT-APPL-SN-835544			US-PATENT-CLASS-422-41
		US-PATENT-CLASS-29-421E			US-PATENT-CLASS-324-102			US-PATENT-CLASS-422-48
		US-PATENT-4,106,687			US-PATENT-CLASS-324-112			US-PATENT-CLASS-55-15-8
N79-13826*	c 72	NASA-CASE-NPO-13993-1			US-PATENT-CLASS-324-113			US-PATENT-4,132,594
		US-PATENT-APPL-SN-782463			US-PATENT-CLASS-324-133	N79-14750*	c 52	NASA-CASE-GSC-12046-1
		US-PATENT-CLASS-331-94.5L			US-PATENT-CLASS-324-172			US-PATENT-APPL-SN-680015
		US-PATENT-CLASS-331-94.5P			US-PATENT-4,112,357			US-PATENT-CLASS-195-103.5K
		US-PATENT-CLASS-331-94.5PE	N79-14345*	c 35	NASA-CASE-LEW-12661-1			US-PATENT-CLASS-195-103.5L
		US-PATENT-4,107,627			US-PATENT-APPL-SN-837796			US-PATENT-4,132,599
N79-13855*	c 74	NASA-CASE-MFS-23052-2			US-PATENT-CLASS-73-115	N79-14751*	c 52	NASA-CASE-NPO-13935-1
		US-PATENT-APPL-SN-590183			US-PATENT-4,111,041			NASA-CASE-NPO-13944-1
		US-PATENT-APPL-SN-772165	N79-14346*	c 35	NASA-CASE-LEW-12174-2			US-PATENT-APPL-SN-741749
		US-PATENT-CLASS-35-12C			US-PATENT-APPL-SN-667929			US-PATENT-CLASS-128-2V
		US-PATENT-CLASS-35-12N			US-PATENT-APPL-SN-853679			US-PATENT-CLASS-73-633
		US-PATENT-CLASS-358-104			US-PATENT-CLASS-136-202			US-PATENT-CLASS-73-644
		US-PATENT-4,106,218			US-PATENT-CLASS-136-236			US-PATENT-4,130,112
N79-14095*	c 07	NASA-CASE-LEW-13050-1			US-PATENT-4,111,718	N79-14871*	c 71	NASA-CASE-LEW-12658-1
		US-PATENT-APPL-SN-513346	N79-14347*	c 35	NASA-CASE-LAR-12230-1			US-PATENT-APPL-SN-702115
		US-PATENT-CLASS-416-157B			US-PATENT-APPL-SN-835628			US-PATENT-CLASS-181-190
		US-PATENT-CLASS-416-160			US-PATENT-CLASS-73-147			US-PATENT-CLASS-181-213
		US-PATENT-CLASS-416-162			US-PATENT-CLASS-73-4R			US-PATENT-CLASS-181-222
		US-PATENT-CLASS-416-167			US-PATENT-CLASS-73-714			US-PATENT-CLASS-181-293
		US-PATENT-4,124,330			US-PATENT-CLASS-73-721			US-PATENT-4,106,587
N79-14096*	c 07	NASA-CASE-LEW-12389-3			US-PATENT-CLASS-73-756	N79-14891*	c 74	NASA-CASE-GSC-12225-1
		US-PATENT-APPL-SN-552108			US-PATENT-4,111,058			US-PATENT-APPL-SN-823566
		US-PATENT-APPL-SN-753452	N79-14348*	c 35	NASA-CASE-NPO-13569-2			US-PATENT-CLASS-350-157
		US-PATENT-CLASS-137-15.1			US-PATENT-APPL-SN-565162			US-PATENT-4,129,357
		US-PATENT-CLASS-244-54			US-PATENT-APPL-SN-804035	N79-14908*	c 76	NASA-CASE-MFS-23541-1
		US-PATENT-CLASS-415-200			US-PATENT-CLASS-318-573			US-PATENT-APPL-SN-814005
		US-PATENT-CLASS-415-201			US-PATENT-CLASS-318-594			US-PATENT-CLASS-204-192C
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-318-640			US-PATENT-4,111,775
		US-PATENT-CLASS-60-226R			US-PATENT-4,132,940	N79-15245*	c 33	NASA-CASE-ARC-10975-1
		US-PATENT-CLASS-60-39.31	N79-14349*	c 35	NASA-CASE-LAR-11859-1			US-PATENT-APPL-SN-799832
		US-PATENT-4,132,069			US-PATENT-APPL-SN-861396			US-PATENT-CLASS-250-531
N79-14097*	c 07	NASA-CASE-LEW-12378-1			US-PATENT-CLASS-324-57R			US-PATENT-CLASS-250-540
		US-PATENT-APPL-SN-573029			US-PATENT-4,130,795			US-PATENT-CLASS-250-541
		US-PATENT-CLASS-239-265.39	N79-14362*	c 36	NASA-CASE-GSC-12334-1			US-PATENT-4,130,490
		US-PATENT-CLASS-60-226A			US-PATENT-APPL-SN-856464	N79-16246*	c 35	NASA-CASE-NPO-10872-1
		US-PATENT-4,132,068			US-PATENT-CLASS-324-0.5			US-PATENT-APPL-SN-805549
N79-14108*	c 08	NASA-CASE-LAR-11868-2			US-PATENT-CLASS-331-94			US-PATENT-CLASS-179-100.2CH
		US-PATENT-APPL-SN-651002			US-PATENT-4,128,814			US-PATENT-CLASS-340-174.1M
		US-PATENT-APPL-SN-779429	N79-14382*	c 37	NASA-CASE-LAR-11900-1			US-PATENT-CLASS-346-74MT
		US-PATENT-CLASS-244-218			US-PATENT-APPL-SN-775239			US-PATENT-3,626,114
		US-PATENT-CLASS-244-46			US-PATENT-CLASS-403-105	N79-16678*	c 76	NASA-CASE-NPO-11336-1
		US-PATENT-CLASS-244-90R			US-PATENT-CLASS-416-61			NASA-CASE-NPO-13247-1
		US-PATENT-4,132,375			US-PATENT-CLASS-74-586			US-PATENT-APPL-SN-302913
N79-14156*	c 24	NASA-CASE-GSC-12207-1			US-PATENT-4,111,068			US-PATENT-CLASS-117-107
		US-PATENT-APPL-SN-844344	N79-14383*	c 37	NASA-CASE-NPO-13541-1			US-PATENT-CLASS-117-119
		US-PATENT-CLASS-106-296			US-PATENT-APPL-SN-828262			US-PATENT-CLASS-117-234
		US-PATENT-CLASS-106-84			US-PATENT-CLASS-81-119			US-PATENT-CLASS-117-235
		US-PATENT-CLASS-252-518			US-PATENT-CLASS-81-180B			US-PATENT-CLASS-117-237
		US-PATENT-4,111,851			US-PATENT-CLASS-81-90B			US-PATENT-CLASS-117-239
N79-14169*	c 25	NASA-CASE-ARC-11121-1			US-PATENT-4,130,032			US-PATENT-CLASS-117-240
		US-PATENT-APPL-SN-850507	N79-14398*	c 38	NASA-CASE-MSC-19672-1			US-PATENT-CLASS-148-121
		US-PATENT-CLASS-204-180G			US-PATENT-APPL-SN-696679			US-PATENT-CLASS-148-6
		US-PATENT-CLASS-204-180S			US-PATENT-CLASS-310-326			US-PATENT-CLASS-75-134D
		US-PATENT-CLASS-204-299R			US-PATENT-CLASS-310-336			US-PATENT-3,837,908
		US-PATENT-CLASS-23-230B			US-PATENT-CLASS-73-632	N79-16915*	c 24	NASA-CASE-ARC-11040-1
		US-PATENT-CLASS-424-12			US-PATENT-CLASS-73-641			US-PATENT-APPL-SN-778195
		US-PATENT-4,130,471			US-PATENT-CLASS-73-644			US-PATENT-CLASS-156-331
N79-14213*	c 27	NASA-CASE-NPO-13690-2			US-PATENT-4,122,725			US-PATENT-CLASS-428-117
		US-PATENT-APPL-SN-858766	N79-14526*	c 44	NASA-CASE-NPO-13921-1			US-PATENT-CLASS-428-119
		US-PATENT-CLASS-264-60			US-PATENT-APPL-SN-785257			US-PATENT-CLASS-428-375
		US-PATENT-CLASS-75-203			US-PATENT-CLASS-126-270			US-PATENT-CLASS-428-458
		US-PATENT-CLASS-75-205			US-PATENT-CLASS-126-271			US-PATENT-CLASS-428-73
		US-PATENT-CLASS-75-206			US-PATENT-4,111,184			US-PATENT-4,135,019
		US-PATENT-CLASS-75-212	N79-14527*	c 44	NASA-CASE-HQN-10888-1	N79-17029*	c 31	NASA-CASE-GSC-12168-1
		US-PATENT-CLASS-75-226			US-PATENT-APPL-SN-760057			US-PATENT-APPL-SN-838337
		US-PATENT-4,131,459			US-PATENT-CLASS-188-151A			US-PATENT-CLASS-165-30
N79-14214*	c 27	NASA-CASE-ARC-10892-2			US-PATENT-CLASS-188-269			US-PATENT-CLASS-174-15CA
		US-PATENT-APPL-SN-589172			US-PATENT-CLASS-303-92			US-PATENT-CLASS-250-352
		US-PATENT-APPL-SN-767912			US-PATENT-CLASS-415-9			US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-427-294			US-PATENT-CLASS-416-2			US-PATENT-4,134,447
		US-PATENT-CLASS-427-41			US-PATENT-CLASS-74-572	N79-17133*	c 33	NASA-CASE-MFS-23659-1
		US-PATENT-CLASS-428-411			US-PATENT-4,132,130			US-PATENT-APPL-SN-782462
		US-PATENT-4,132,829	N79-14528*	c 44	NASA-CASE-LEW-12236-2			US-PATENT-CLASS-323-44F
N79-14228*	c 28	NASA-CASE-NPO-10866-1			US-PATENT-APPL-SN-760771			US-PATENT-CLASS-336-DIG.1
		US-PATENT-APPL-SN-849274			US-PATENT-APPL-SN-899123			US-PATENT-4,135,127
		US-PATENT-CLASS-149-19.9			US-PATENT-CLASS-136-89SJ	N79-17192*	c 35	NASA-CASE-LEW-11583-1
		US-PATENT-CLASS-149-19.92			US-PATENT-CLASS-357-30			US-PATENT-APPL-SN-414042
		US-PATENT-CLASS-149-20			US-PATENT-4,131,486			US-PATENT-CLASS-55-118
		US-PATENT-4,111,729	N79-14529*	c 44	NASA-CASE-NPO-13579-4			US-PATENT-CLASS-55-122
N79-14267*	c 32	NASA-CASE-NPO-13982-1			US-PATENT-APPL-SN-906297			US-PATENT-CLASS-55-127

			US-PATENT-CLASS-55-155			US-PATENT-APPL-SN-824024	N79-20857*	c 74	.....	NASA-CASE-GSC-12263-1
			US-PATENT-CLASS-55-241			US-PATENT-CLASS-126-271				US-PATENT-APPL-SN-817415
			US-PATENT-CLASS-55-242			US-PATENT-CLASS-165-105				US-PATENT-CLASS-250-363R
			US-PATENT-CLASS-55-360			US-PATENT-CLASS-60-508				US-PATENT-CLASS-250-483
			US-PATENT-CLASS-55-407			US-PATENT-CLASS-60-572				US-PATENT-4,142,101
N79-17288*	c 43	.....	US-PATENT-4,134,744			US-PATENT-CLASS-60-641	N79-21083*	c 09	.....	US-PATENT-4,142,101
			NASA-CASE-NPO-13691-1		N79-18444*	US-PATENT-4,135,367				NASA-CASE-LAR-10135-1
			US-PATENT-APPL-SN-664091			NASA-CASE-LEW-12819-2				US-PATENT-APPL-SN-648034
			US-PATENT-CLASS-250-226			US-PATENT-APPL-SN-863770				US-PATENT-CLASS-73-147
			US-PATENT-CLASS-356-300			US-PATENT-CLASS-148-6.3	N79-21084*	c 09	.....	US-PATENT-3,453,878
			US-PATENT-CLASS-356-407			US-PATENT-CLASS-29-572				NASA-CASE-XLE-03186-1
			US-PATENT-CLASS-356-416			US-PATENT-CLASS-29-578				US-PATENT-APPL-SN-200770
			US-PATENT-4,134,683			US-PATENT-CLASS-29-591				US-PATENT-CLASS-89-8
N79-17313*	c 44	.....	US-PATENT-4,134,683			US-PATENT-4,135,290	N79-21123*	c 20	.....	US-PATENT-3,224,337
			NASA-CASE-LEW-12358-1		N79-18580*	US-PATENT-4,135,290				NASA-CASE-XMF-06884-1
			US-PATENT-APPL-SN-776146			NASA-CASE-ARC-11035-1				US-PATENT-APPL-SN-579300
			US-PATENT-CLASS-429-101			US-PATENT-APPL-SN-758721				US-PATENT-CLASS-164-105
			US-PATENT-CLASS-429-33			US-PATENT-CLASS-128-2.05Z	N79-21124*	c 20	.....	US-PATENT-3,485,290
			US-PATENT-4,133,941			US-PATENT-CLASS-128-2.1A				NASA-CASE-XMF-05964-1
N79-17314*	c 44	.....	US-PATENT-4,133,941			US-PATENT-CLASS-128-2V				US-PATENT-APPL-SN-578397
			NASA-CASE-NPO-13652-1			US-PATENT-4,109,644				US-PATENT-CLASS-60-243
			US-PATENT-APPL-SN-809890		N79-19186*	NASA-CASE-WOO-00428-1				US-PATENT-3,390,528
			US-PATENT-CLASS-136-89CC			US-PATENT-APPL-SN-112999	N79-21125*	c 20	.....	US-PATENT-3,390,528
			US-PATENT-CLASS-136-89P			US-PATENT-CLASS-117-35				NASA-CASE-XMF-04592-1
			US-PATENT-CLASS-29-572			US-PATENT-3,173,801				NASA-CASE-XMF-04593-1
			US-PATENT-4,133,697			US-PATENT-3,173,801				US-PATENT-APPL-SN-579376
N79-17747*	c 85	.....	NASA-CASE-NPO-13847-2		N79-19195* #	NASA-CASE-NPO-14525-1				US-PATENT-CLASS-60-39.74
			NASA-CASE-NPO-13848-2			US-PATENT-APPL-SN-017885				US-PATENT-3,397,537
			US-PATENT-APPL-SN-750798		N79-19447*	NASA-CASE-XGS-00829-1	N79-21190*	c 27	.....	NASA-CASE-XMF-02526-1
			US-PATENT-CLASS-162-14			US-PATENT-APPL-SN-286824				NASA-CASE-XMF-02527-1
			US-PATENT-CLASS-162-29			US-PATENT-CLASS-269-153				NASA-CASE-XMF-02783-1
			US-PATENT-CLASS-210-28			US-PATENT-3,262,694				US-PATENT-APPL-SN-483817
			US-PATENT-CLASS-210-40			NASA-CASE-LEW-12780-1				US-PATENT-CLASS-260-2
			US-PATENT-CLASS-210-45		N79-20179*	US-PATENT-APPL-SN-891370				US-PATENT-3,311,571
			US-PATENT-CLASS-210-54			US-PATENT-CLASS-323-15	N79-21191*	c 27	.....	NASA-CASE-XMF-06900-1
			US-PATENT-CLASS-210-66			US-PATENT-CLASS-323-20				US-PATENT-APPL-SN-554959
			US-PATENT-CLASS-210-67			US-PATENT-4,143,314				US-PATENT-CLASS-260-67
			US-PATENT-CLASS-210-73R			NASA-CASE-GSC-12148-1				US-PATENT-3,419,531
			US-PATENT-4,134,786			US-PATENT-APPL-SN-786322	N79-21225*	c 31	.....	US-PATENT-3,419,531
N79-17847*	c 05	.....	NASA-CASE-ARC-11045-1			US-PATENT-CLASS-325-58				US-PATENT-APPL-SN-400857
			US-PATENT-APPL-SN-818916			US-PATENT-CLASS-325-63				US-PATENT-CLASS-222-131
			US-PATENT-CLASS-416-132R			US-PATENT-CLASS-343-179				US-PATENT-3,215,313
			US-PATENT-CLASS-416-138			US-PATENT-4,140,972	N79-21226*	c 31	.....	NASA-CASE-MFS-10946-1
			US-PATENT-CLASS-416-51		N79-20297*	NASA-CASE-MS-C-16253-1				US-PATENT-APPL-SN-581843
			US-PATENT-CLASS-416-88			US-PATENT-APPL-SN-831631				US-PATENT-CLASS-156-52
			US-PATENT-CLASS-416-89			US-PATENT-CLASS-358-109				US-PATENT-3,481,802
			US-PATENT-CLASS-416-80			US-PATENT-CLASS-358-81	N79-21227*	c 31	.....	NASA-CASE-XMF-05757-1
			US-PATENT-4,137,019			US-PATENT-CLASS-364-713				US-PATENT-APPL-SN-562558
N79-17916*	c 24	.....	NASA-CASE-LEW-11930-4			US-PATENT-4,139,862				US-PATENT-CLASS-117-43
			US-PATENT-APPL-SN-860406		N79-20314*	NASA-CASE-GSC-12138-1				US-PATENT-3,511,680
			US-PATENT-CLASS-252-12.2			US-PATENT-APPL-SN-779871				NASA-CASE-XMF-05373-1
			US-PATENT-CLASS-308-DIG.8			US-PATENT-CLASS-310-231	N79-21264*	c 33	.....	US-PATENT-APPL-SN-474815
			US-PATENT-CLASS-308-DIG.9			US-PATENT-CLASS-310-46				US-PATENT-CLASS-335-216
			US-PATENT-CLASS-308-168			US-PATENT-CLASS-310-82				US-PATENT-3,310,765
			US-PATENT-CLASS-308-171			US-PATENT-4,142,119	N79-21265*	c 33	.....	NASA-CASE-XNP-02899-1
			US-PATENT-CLASS-308-78		N79-20335*	NASA-CASE-NPO-14130-1				US-PATENT-APPL-SN-472643
			US-PATENT-CLASS-308-87R			US-PATENT-APPL-SN-847278				US-PATENT-CLASS-317-245
			US-PATENT-CLASS-427-292			US-PATENT-CLASS-415-1				US-PATENT-3,356,917
			US-PATENT-CLASS-427-327			US-PATENT-CLASS-415-143	N79-21345*	c 37	.....	NASA-CASE-XMS-01295-1
			US-PATENT-CLASS-427-328			US-PATENT-CLASS-60-645				US-PATENT-APPL-SN-77869
			US-PATENT-CLASS-427-34			US-PATENT-CLASS-60-649				US-PATENT-CLASS-55-159
			US-PATENT-CLASS-427-355			US-PATENT-4,141,219				US-PATENT-3,131,040
			US-PATENT-CLASS-427-376B		N79-20336*	NASA-CASE-LEW-11981-2	N79-21750*	c 52	.....	NASA-CASE-MS-C-12239-1
			US-PATENT-4,136,211			US-PATENT-APPL-SN-829315				US-PATENT-APPL-SN-292340
N79-18052*	c 27	.....	NASA-CASE-ARC-10915-2			US-PATENT-CLASS-250-352				US-PATENT-CLASS-128-2.07
			US-PATENT-APPL-SN-634304			US-PATENT-CLASS-313-22				US-PATENT-3,396,719
			US-PATENT-APPL-SN-779883			US-PATENT-CLASS-313-35	N79-21910*	c 76	.....	NASA-CASE-XLE-02545-1
			US-PATENT-CLASS-427-40			US-PATENT-CLASS-62-268				US-PATENT-APPL-SN-430748
			US-PATENT-CLASS-427-41			US-PATENT-CLASS-62-376				US-PATENT-CLASS-156-17
			US-PATENT-CLASS-428-412			US-PATENT-CLASS-62-514R				US-PATENT-3,429,756
			US-PATENT-CLASS-428-447			US-PATENT-4,141,224	N79-22235*	c 25	.....	NASA-CASE-LEW-12513-1
			US-PATENT-CLASS-428-451			NASA-CASE-MS-C-19514-1				US-PATENT-APPL-SN-772167
			US-PATENT-4,137,365			US-PATENT-APPL-SN-772168				US-PATENT-CLASS-195-103.5R
N79-18193*	c 33	.....	NASA-CASE-KSC-10899-1			US-PATENT-CLASS-74-674				US-PATENT-CLASS-195-127
			US-PATENT-APPL-SN-814004			US-PATENT-CLASS-74-705				US-PATENT-CLASS-204-1T
			US-PATENT-CLASS-324-127			US-PATENT-CLASS-74-764				US-PATENT-CLASS-2041-195B
			US-PATENT-CLASS-324-133			US-PATENT-4,141,259				US-PATENT-4,145,255
			US-PATENT-CLASS-324-52		N79-20751*	NASA-CASE-NPO-13676-1	N79-22271*	c 26	.....	NASA-CASE-LEW-12542-2
			US-PATENT-CLASS-340-650			US-PATENT-APPL-SN-779415				US-PATENT-APPL-SN-803822
			US-PATENT-CLASS-340-664			US-PATENT-CLASS-340-347DD				US-PATENT-APPL-SN-860405
			US-PATENT-4,110,683			US-PATENT-CLASS-364-900				US-PATENT-CLASS-148-12.4
N79-18296*	c 35	.....	NASA-CASE-LAR-12275-1			US-PATENT-4,139,839				US-PATENT-CLASS-148-12F
			US-PATENT-APPL-SN-885065		N79-20827*	NASA-CASE-NPO-14005-1				US-PATENT-CLASS-148-2
			US-PATENT-CLASS-356-28			US-PATENT-APPL-SN-812447				US-PATENT-4,146,409
			US-PATENT-CLASS-358-107			US-PATENT-CLASS-310-20	N79-22300*	c 27	.....	NASA-CASE-ARC-11060-1
			US-PATENT-4,135,817			US-PATENT-CLASS-310-26				US-PATENT-APPL-SN-843090
N79-18307*	c 36	.....	NASA-CASE-LAR-12183-1			US-PATENT-CLASS-310-322				US-PATENT-CLASS-260-307G
			US-PATENT-CLASS-331-94.5G			US-PATENT-CLASS-310-334				US-PATENT-CLASS-528-401
			US-PATENT-CLASS-331-94.5P			US-PATENT-CLASS-318-116				US-PATENT-CLASS-528-422
			US-PATENT-CLASS-788-704			US-PATENT-CLASS-60-721				US-PATENT-4,145,524
			US-PATENT-4,110,703			US-PATENT-CLASS-73-505	N79-22373*	c 33	.....	NASA-CASE-KSC-11008-1
N79-18318*	c 37	.....	NASA-CASE-LEW-12131-1		N79-20856*	US-PATENT-4,139,806				US-PATENT-APPL-SN-780729
			US-PATENT-APPL-SN-801290			NASA-CASE-NPO-14174-1				US-PATENT-CLASS-324-123C
			US-PATENT-CLASS-415-174			US-PATENT-APPL-SN-876441				US-PATENT-CLASS-324-99D
			US-PATENT-CLASS-415-200			US-PATENT-CLASS-250-237G				US-PATENT-CLASS-330-2
			US-PATENT-4,135,851			US-PATENT-CLASS-354-77				US-PATENT-CLASS-330-51
N79-18443*	c 44	.....	NASA-CASE-NPO-14058-1			US-PATENT-CLASS-356-129				US-PATENT-CLASS-330-86
						US-PATENT-4,139,291				US-PATENT-4,109,213

N79-22474*	c 37	NASA-CASE-MFS-23646-1 US-PATENT-APPL-SN-891372 US-PATENT-CLASS-138-96R US-PATENT-CLASS-220-266 US-PATENT-CLASS-239-265.15 US-PATENT-CLASS-239-288 US-PATENT-CLASS-277-192 US-PATENT-4,146,180	N79-22485*	c 34	NASA-CASE-MSC-16841-1 US-PATENT-APPL-SN-893382 US-PATENT-CLASS-210-108 US-PATENT-CLASS-210-142 US-PATENT-CLASS-73-714 US-PATENT-4,151,086	N79-25482*	c 44	NASA-CASE-NPO-14199-1 NASA-CASE-NPO-14200-1 US-PATENT-APPL-SN-891243 US-PATENT-CLASS-136-89CA US-PATENT-CLASS-136-89CC US-PATENT-CLASS-136-89PC US-PATENT-CLASS-136-89SJ US-PATENT-4,153,476
N79-22475*	c 37	NASA-CASE-LEW-11873-1 US-PATENT-APPL-SN-814006 US-PATENT-CLASS-277-62 US-PATENT-CLASS-277-96.1 US-PATENT-4,145,058	N79-24431*	c 44	NASA-CASE-NPO-13652-2 US-PATENT-APPL-SN-848794 US-PATENT-CLASS-228-5.1 US-PATENT-CLASS-228-6 US-PATENT-CLASS-29-57.4 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-739 US-PATENT-CLASS-29-809 US-PATENT-4,149,665	N79-26075*	c 12	NASA-CASE-MFS-23460-1 US-PATENT-APPL-SN-746578 US-PATENT-CLASS-13-20 US-PATENT-CLASS-13-22 US-PATENT-CLASS-13-24 US-PATENT-CLASS-219-410 US-PATENT-4,158,742
N79-22537*	c 39	NASA-CASE-LAR-12027-1 US-PATENT-APPL-SN-889670 US-PATENT-CLASS-73-770 US-PATENT-CLASS-73-810 US-PATENT-4,145,933	N79-24432*	c 44	NASA-CASE-NPO-13579-3 US-PATENT-APPL-SN-762363 US-PATENT-CLASS-126-270 US-PATENT-CLASS-264-1 US-PATENT-CLASS-264-33 US-PATENT-CLASS-264-34 US-PATENT-CLASS-264-35 US-PATENT-CLASS-264-510 US-PATENT-CLASS-264-516 US-PATENT-CLASS-264-70 US-PATENT-CLASS-264-71 US-PATENT-CLASS-350-292 US-PATENT-CLASS-350-294 US-PATENT-CLASS-350-296 US-PATENT-CLASS-405-229 US-PATENT-CLASS-405-263 US-PATENT-4,149,817	N79-26100*	c 15	NASA-CASE-ARC-11104-1 US-PATENT-APPL-SN-854920 US-PATENT-CLASS-244-121 US-PATENT-CLASS-260-37EP US-PATENT-CLASS-260-830S US-PATENT-CLASS-264-102 US-PATENT-CLASS-264-145 US-PATENT-CLASS-264-151 US-PATENT-CLASS-264-175 US-PATENT-CLASS-264-236 US-PATENT-CLASS-428-220 US-PATENT-CLASS-428-413 US-PATENT-CLASS-428-414 US-PATENT-CLASS-428-418 US-PATENT-CLASS-428-421 US-PATENT-CLASS-428-920 US-PATENT-4,156,752
N79-22679*	c 46	NASA-CASE-NPO-14112-1 US-PATENT-APPL-SN-826326 US-PATENT-CLASS-102-21.6 US-PATENT-CLASS-166-63 US-PATENT-CLASS-175-1 US-PATENT-CLASS-181-106 US-PATENT-CLASS-181-117 US-PATENT-4,148,375	N79-24433*	c 44	NASA-CASE-NPO-13579-2 US-PATENT-APPL-SN-762362 US-PATENT-CLASS-126-271 US-PATENT-CLASS-126-400 US-PATENT-CLASS-237-1A US-PATENT-CLASS-350-288 US-PATENT-CLASS-350-299 US-PATENT-4,149,521	N79-26372*	c 35	NASA-CASE-LAR-11889-1 US-PATENT-APPL-SN-662182 US-PATENT-CLASS-308-10 US-PATENT-CLASS-73-178R US-PATENT-4,156,548
N79-23097*	c 08	NASA-CASE-LAR-12215-1 US-PATENT-APPL-SN-858762 US-PATENT-CLASS-244-17.13 US-PATENT-CLASS-244-195 US-PATENT-CLASS-244-83G US-PATENT-CLASS-318-585 US-PATENT-CLASS-318-616 US-PATENT-CLASS-364-434 US-PATENT-4,148,452	N79-24651*	c 54	NASA-CASE-ARC-11058-2 US-PATENT-APPL-SN-753965 US-PATENT-APPL-SN-883094 US-PATENT-CLASS-2-2.1A US-PATENT-CLASS-285-235 US-PATENT-4,091,664 US-PATENT-4,151,612	N79-26439*	c 43	NASA-CASE-MFS-23726-1 US-PATENT-APPL-SN-848418 US-PATENT-CLASS-105-161 US-PATENT-CLASS-299-1 US-PATENT-CLASS-33-1N US-PATENT-CLASS-33-1Q US-PATENT-CLASS-33-174 US-PATENT-CLASS-364-560 US-PATENT-4,156,971
N79-23310*	c 32	NASA-CASE-KSC-11023-1 US-PATENT-APPL-SN-918533 US-PATENT-CLASS-179-1MN US-PATENT-CLASS-179-27CA US-PATENT-CLASS-179-84VF US-PATENT-4,153,818	N79-24652*	c 54	NASA-CASE-NPO-13906-1 US-PATENT-APPL-SN-837259 US-PATENT-CLASS-3-1.1 US-PATENT-CLASS-3-12.5 US-PATENT-CLASS-414-6 US-PATENT-4,149,278	N79-26474*	c 44	NASA-CASE-LEW-13150-1 US-PATENT-APPL-SN-914260 US-PATENT-CLASS-429-101 US-PATENT-CLASS-429-15 US-PATENT-4,159,366
N79-23345*	c 33	NASA-CASE-FRC-10116-1 US-PATENT-APPL-SN-885049 US-PATENT-CLASS-323-22T US-PATENT-4,151,456	N79-24976*	c 05	NASA-CASE-LEW-11890-1 US-PATENT-APPL-SN-891244 US-PATENT-CLASS-137-15.1 US-PATENT-CLASS-244-53B US-PATENT-4,154,256	N79-26475*	c 44	NASA-CASE-MFS-23540-1 US-PATENT-APPL-SN-863773 US-PATENT-CLASS-29-572 US-PATENT-CLASS-29-577 US-PATENT-CLASS-29-578 US-PATENT-CLASS-29-580 US-PATENT-CLASS-357-45 US-PATENT-4,156,309
N79-23481*	c 44	NASA-CASE-MFS-23349-1 US-PATENT-APPL-SN-823061 US-PATENT-CLASS-126-270 US-PATENT-CLASS-126-271 US-PATENT-4,148,295	N79-25142*	c 24	NASA-CASE-MSC-12737-1 US-PATENT-APPL-SN-788045 US-PATENT-CLASS-102-105 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-163 US-PATENT-CLASS-427-350 US-PATENT-CLASS-427-372A US-PATENT-CLASS-428-137 US-PATENT-CLASS-428-282 US-PATENT-CLASS-428-290 US-PATENT-CLASS-428-332 US-PATENT-CLASS-428-447 US-PATENT-CLASS-428-920 US-PATENT-4,151,800	N79-26771*	c 52	NASA-CASE-ARC-10994-2 US-PATENT-APPL-SN-759965 US-PATENT-CLASS-128-660 US-PATENT-CLASS-73-626 US-PATENT-4,154,230
N79-23555*	c 46	NASA-CASE-NPO-14255-1 US-PATENT-APPL-SN-830458 US-PATENT-CLASS-181-115 US-PATENT-CLASS-181-120 US-PATENT-CLASS-340-12R US-PATENT-4,153,134	N79-25143*	c 24	NASA-CASE-GSC-11577-3 US-PATENT-APPL-SN-322997 US-PATENT-APPL-SN-506803 US-PATENT-APPL-SN-645502 US-PATENT-CLASS-156-89 US-PATENT-CLASS-220-2.2 US-PATENT-CLASS-65-43 US-PATENT-3,859,714 US-PATENT-4,155,475	N79-26772*	c 52	NASA-CASE-KSC-11069-1 US-PATENT-APPL-SN-876438 US-PATENT-CLASS-3-1.9 US-PATENT-CLASS-3-12 US-PATENT-CLASS-3-2 US-PATENT-4,158,895
N79-23753*	c 71	NASA-CASE-NPO-14134-1 US-PATENT-APPL-SN-861392 US-PATENT-CLASS-179-1DM US-PATENT-CLASS-179-1MF US-PATENT-CLASS-181-148 US-PATENT-CLASS-340-8LF US-PATENT-4,149,034	N79-25443*	c 43	NASA-CASE-MFS-23720-3 US-PATENT-APPL-SN-848420 US-PATENT-CLASS-73-12 US-PATENT-CLASS-73-82 US-PATENT-4,154,084	N79-27836*	c 52	NASA-CASE-NPO-13910-1 US-PATENT-APPL-SN-712270 US-PATENT-CLASS-128-329R US-PATENT-CLASS-128-639 US-PATENT-4,154,228
N79-23798*	c 76	NASA-CASE-NPO-13969-1 US-PATENT-APPL-SN-820499 US-PATENT-CLASS-156-DIG.6-8 US-PATENT-CLASS-156-617SP US-PATENT-CLASS-423-345 US-PATENT-4,152,194	N79-25481*	c 44	NASA-CASE-LEW-12972-1 US-PATENT-APPL-SN-897829 US-PATENT-CLASS-429-253 US-PATENT-CLASS-526-7 US-PATENT-CLASS-526-9 US-PATENT-4,154,912	N79-28253*	c 25	NASA-CASE-NPO-13650-1 US-PATENT-APPL-SN-704468 US-PATENT-CLASS-118-49 US-PATENT-CLASS-23-252R US-PATENT-CLASS-248 US-PATENT-CLASS-253 US-PATENT-CLASS-337 US-PATENT-CLASS-349 US-PATENT-CLASS-423-33.5 US-PATENT-CLASS-427-95 US-PATENT-4,033,286
N79-24062*	c 24	NASA-CASE-ARC-11169-1 US-PATENT-APPL-SN-940688 US-PATENT-CLASS-428-366 US-PATENT-4,148,962				N79-28307*	c 27	NASA-CASE-LEW-12053-2 US-PATENT-APPL-SN-796263 US-PATENT-CLASS-260-37N US-PATENT-CLASS-260-42 US-PATENT-CLASS-260-53 US-PATENT-CLASS-528-126 US-PATENT-CLASS-528-127 US-PATENT-CLASS-528-128 US-PATENT-CLASS-528-221 US-PATENT-CLASS-528-223
N79-24073*	c 25	NASA-CASE-LAR-11922-1 US-PATENT-APPL-SN-856460 US-PATENT-CLASS-195-127 US-PATENT-CLASS-204-195B US-PATENT-4,149,938						
N79-24203*	c 32	NASA-CASE-LAR-12375-1 US-PATENT-APPL-SN-900842 US-PATENT-CLASS-73-647 US-PATENT-CLASS-73-724 US-PATENT-4,149,423						
N79-24210*	c 32	NASA-CASE-NPO-13641-1 US-PATENT-APPL-SN-777983 US-PATENT-CLASS-343-100TD US-PATENT-4,148,031						
N79-24254*	c 33	NASA-CASE-NPO-14000-1 US-PATENT-APPL-SN-876431 US-PATENT-CLASS-307-82 US-PATENT-CLASS-363-56 US-PATENT-CLASS-363-71 US-PATENT-CLASS-363-97 US-PATENT-4,150,425						
N79-24257*	c 33	NASA-CASE-NPO-14056-1 US-PATENT-APPL-SN-833637						

				US-PATENT-CLASS-528-225	N79-33316*	c 27	.....	NASA-CASE-LAR-12054-1	N80-10799*	c 54	.....	NASA-CASE-MS-16182-1
				US-PATENT-CLASS-528-227				US-PATENT-APPL-SN-839963				US-PATENT-APPL-SN-780938
				US-PATENT-CLASS-528-229				US-PATENT-CLASS-264-137				US-PATENT-CLASS-128-142R
				US-PATENT-CLASS-528-331				US-PATENT-CLASS-428-474				US-PATENT-CLASS-128-191R
				US-PATENT-CLASS-528-336				US-PATENT-CLASS-528-229				US-PATENT-CLASS-128-212
				US-PATENT-CLASS-528-337				US-PATENT-4,166,170				US-PATENT-4,168,706
				US-PATENT-CLASS-528-338	N79-33392*	c 33	.....	NASA-CASE-XMF-04494-1	N80-14107*	c 05	.....	NASA-CASE-ARC-11106-1
				US-PATENT-CLASS-528-342				US-PATENT-APPL-SN-547643				US-PATENT-APPL-SN-831633
				US-PATENT-CLASS-544-193				US-PATENT-CLASS-200-83				US-PATENT-CLASS-415-199
				US-PATENT-4,159,262				US-PATENT-3,378,657				US-PATENT-CLASS-416-228
N79-28342*	c 28	.....		NASA-CASE-NPO-14260-1	N79-33393*	c 33	.....	NASA-CASE-XMS-01244-1				US-PATENT-CLASS-416-238
				US-PATENT-APPL-SN-861390				US-PATENT-APPL-SN-20370				US-PATENT-4,168,939
				US-PATENT-CLASS-149-19.4				US-PATENT-CLASS-200-114	N80-14183*	c 18	.....	NASA-CASE-GSC-12331-1
				US-PATENT-CLASS-149-19.9				US-PATENT-3,123,692				US-PATENT-APPL-SN-943088
				US-PATENT-CLASS-149-20				US-PATENT-3,123,692				US-PATENT-CLASS-343-880
				US-PATENT-4,158,583	N79-33449*	c 35	.....	NASA-CASE-XGS-01245-1				US-PATENT-CLASS-343-883
N79-28370*	c 31	.....		NASA-CASE-MFS-23721-1				US-PATENT-APPL-SN-134619				US-PATENT-4,176,360
				US-PATENT-APPL-SN-847277				US-PATENT-CLASS-338-18	N80-14188*	c 20	.....	NASA-CASE-XLE-02062-1
				US-PATENT-CLASS-343-14				US-PATENT-3,119,086				US-PATENT-APPL-SN-545793
				US-PATENT-CLASS-343-5NA	N79-33450*	c 35	.....	NASA-CASE-XGS-01293-1				US-PATENT-CLASS-60-203
				US-PATENT-4,161,731				US-PATENT-APPL-SN-150690				US-PATENT-CLASS-60-259
N79-28415*	c 33	.....		NASA-CASE-MS-16697-1				US-PATENT-CLASS-73-400				US-PATENT-4,171,615
				US-PATENT-APPL-SN-885067				US-PATENT-3,190,124	N80-14229*	c 26	.....	NASA-CASE-NPO-14474-1
				US-PATENT-CLASS-307-119				US-PATENT-APPL-SN-228049				US-PATENT-APPL-SN-918537
				US-PATENT-CLASS-307-98				US-PATENT-CLASS-312-319				US-PATENT-CLASS-423-149
				US-PATENT-CLASS-361-170				US-PATENT-3,123,418				US-PATENT-CLASS-423-293
N79-28416*	c 33	.....		US-PATENT-4,161,661	N79-33468*	c 37	.....	NASA-CASE-HQN-00573-1				US-PATENT-CLASS-423-348
				NASA-CASE-GSC-12171-1				US-PATENT-APPL-SN-129379				US-PATENT-CLASS-423-417
				US-PATENT-APPL-SN-878542				US-PATENT-CLASS-137-14				US-PATENT-CLASS-423-625
				US-PATENT-CLASS-343-909				US-PATENT-3,134,389	N80-14281*	c 32	.....	NASA-CASE-NPO-13830-1
				US-PATENT-4,160,254	N79-33469*	c 37	.....	NASA-CASE-XGS-01286-1				US-PATENT-APPL-SN-703905
N79-28527*	c 35	.....		NASA-CASE-NPO-13953-1				US-PATENT-APPL-SN-142583				US-PATENT-APPL-SN-834257
				US-PATENT-APPL-SN-880727				US-PATENT-CLASS-251-172				US-PATENT-CLASS-333-81R
				US-PATENT-CLASS-356-237				US-PATENT-CLASS-251-172				US-PATENT-CLASS-343-18A
				US-PATENT-CLASS-356-404				US-PATENT-3,233,862				US-PATENT-CLASS-343-909
				US-PATENT-4,160,601	N79-34011*	c 74	.....	NASA-CASE-NPO-14066-1				US-PATENT-4,164,718
N79-28549*	c 37	.....		NASA-CASE-GSC-12297-1				US-PATENT-APPL-SN-827464	N80-14330*	c 33	.....	NASA-CASE-NPO-10857-1
				US-PATENT-APPL-SN-880838				US-PATENT-CLASS-250-216				US-PATENT-APPL-SN-888362
				US-PATENT-CLASS-165-105				US-PATENT-CLASS-250-551				US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-74	N80-10278*	c 20	.....	US-PATENT-4,166,959				US-PATENT-CLASS-315-145
				US-PATENT-CLASS-357-79				NASA-CASE-MFS-23642-1				US-PATENT-CLASS-315-260
				US-PATENT-CLASS-357-81				US-PATENT-APPL-SN-923758				US-PATENT-CLASS-315-334
				US-PATENT-CLASS-357-82				US-PATENT-CLASS-137-177				US-PATENT-3,635,537
				US-PATENT-CLASS-357-83				US-PATENT-CLASS-137-209	N80-14332*	c 33	.....	NASA-CASE-NPO-14350-1
				US-PATENT-4,161,747				US-PATENT-CLASS-137-574				US-PATENT-APPL-SN-921627
N79-28550*	c 37	.....		NASA-CASE-GSC-12274-1				US-PATENT-CLASS-137-576				US-PATENT-CLASS-250-310
				US-PATENT-APPL-SN-909100				US-PATENT-CLASS-137-590				US-PATENT-CLASS-250-492A
				US-PATENT-CLASS-251-7				US-PATENT-CLASS-244-135R				US-PATENT-CLASS-324-158T
				US-PATENT-CLASS-72-436				US-PATENT-4,168,718				US-PATENT-4,172,228
				US-PATENT-CLASS-72-451	N80-10358*	c 27	.....	NASA-CASE-MS-14903-2	N80-14371*	c 35	.....	NASA-CASE-LAR-11690-1
				US-PATENT-CLASS-72-470				US-PATENT-APPL-SN-706424				US-PATENT-APPL-SN-928129
				US-PATENT-4,159,634				US-PATENT-APPL-SN-907435				US-PATENT-CLASS-73-655
N79-28551*	c 37	.....		NASA-CASE-ARC-11052-1				US-PATENT-CLASS-260-926				US-PATENT-CLASS-73-661
				US-PATENT-APPL-SN-826202				US-PATENT-4,092,466				US-PATENT-4,171,645
				US-PATENT-CLASS-414-4				US-PATENT-4,168,287	N80-14384*	c 36	.....	NASA-CASE-GSC-12237-1
				US-PATENT-4,160,508	N80-10374*	c 28	.....	NASA-CASE-NPO-13849-1				US-PATENT-APPL-SN-837795
N79-31228*	c 09	.....		NASA-CASE-LAR-12149-2				NASA-CASE-NPO-13907-1				US-PATENT-CLASS-331-94.5C
				US-PATENT-APPL-SN-829314				US-PATENT-APPL-SN-668783				US-PATENT-CLASS-331-94.5P
				US-PATENT-APPL-SN-928131				US-PATENT-CLASS-123-DIG.12				US-PATENT-4,173,001
				US-PATENT-CLASS-35-12E				US-PATENT-CLASS-123-179R	N80-14395*	c 37	.....	NASA-CASE-XNP-08835-1
				US-PATENT-CLASS-35-12H				US-PATENT-CLASS-123-3				US-PATENT-APPL-SN-534931
				US-PATENT-4,164,079				US-PATENT-CLASS-23-288R				US-PATENT-CLASS-204-224
N79-31347*	c 24	.....		NASA-CASE-GSC-12303-1				US-PATENT-CLASS-423-650				US-PATENT-3,352,774
				US-PATENT-APPL-SN-862880				US-PATENT-CLASS-48-DIG.8	N80-14397*	c 37	.....	NASA-CASE-MFS-23284-1
				US-PATENT-CLASS-106-74				US-PATENT-CLASS-48-10-3				US-PATENT-APPL-SN-753103
				US-PATENT-CLASS-106-84				US-PATENT-CLASS-48-102A				US-PATENT-CLASS-204-180G
				US-PATENT-4,162,169				US-PATENT-CLASS-48-107				US-PATENT-CLASS-204-299R
N79-31523*	c 34	.....		NASA-CASE-GSC-12253-1				US-PATENT-CLASS-48-117				US-PATENT-4,040,940
				US-PATENT-APPL-SN-853677				US-PATENT-CLASS-48-61	N80-14398*	c 37	.....	NASA-CASE-GSC-12322-1
				US-PATENT-CLASS-165-105				US-PATENT-CLASS-60-300				US-PATENT-APPL-SN-907436
				US-PATENT-CLASS-165-32				US-PATENT-CLASS-60-606				US-PATENT-CLASS-244-161
				US-PATENT-CLASS-244-1R				US-PATENT-4,033,133				US-PATENT-CLASS-269-156
				US-PATENT-CLASS-244-163	N80-10494*	c 37	.....	NASA-CASE-NPO-14384-1				US-PATENT-CLASS-294-113
				US-PATENT-4,162,701				US-PATENT-APPL-SN-880728				US-PATENT-CLASS-294-86R
N79-31706*	c 43	.....		NASA-CASE-MFS-23725-1				US-PATENT-CLASS-210-186				US-PATENT-CLASS-414-1
				US-PATENT-APPL-SN-848793				US-PATENT-CLASS-210-340				US-PATENT-4,173,324
				US-PATENT-CLASS-250-253				US-PATENT-CLASS-239-102	N80-14423*	c 43	.....	NASA-CASE-MFS-23720-2
				US-PATENT-CLASS-250-272				US-PATENT-CLASS-239-302				US-PATENT-APPL-SN-848421
				US-PATENT-4,165,460				US-PATENT-CLASS-422-187				US-PATENT-CLASS-73-12
N79-31752*	c 44	.....		NASA-CASE-NPO-14205-1				US-PATENT-CLASS-422-199				US-PATENT-CLASS-73-82
				US-PATENT-APPL-SN-920879				US-PATENT-CLASS-422-208				US-PATENT-4,157,655
				US-PATENT-CLASS-106-1				US-PATENT-CLASS-422-235	N80-14472*	c 44	.....	NASA-CASE-LEW-12586-1
				US-PATENT-CLASS-106-1.2				US-PATENT-CLASS-422-242				US-PATENT-APPL-SN-916655
				US-PATENT-CLASS-136-89CC				US-PATENT-CLASS-423-350				US-PATENT-CLASS-307-63
				US-PATENT-CLASS-252-514				US-PATENT-4,169,129				US-PATENT-CLASS-307-66
				US-PATENT-CLASS-29-572	N80-10507*	c 39	.....	NASA-CASE-NPO-14192-1				US-PATENT-CLASS-323-15
				US-PATENT-CLASS-29-589				US-PATENT-APPL-SN-830562				US-PATENT-CLASS-323-19
				US-PATENT-CLASS-357-30				US-PATENT-CLASS-181-102				US-PATENT-4,175,249
				US-PATENT-CLASS-357-65				US-PATENT-CLASS-181-105				US-PATENT-4,175,249
				US-PATENT-CLASS-357-67				US-PATENT-CLASS-367-26	N80-14473*	c 44	.....	NASA-CASE-MFS-23727-1
				US-PATENT-CLASS-427-88				US-PATENT-CLASS-467-28				US-PATENT-APPL-SN-856465
				US-PATENT-4,163,678				US-PATENT-4,168,483				US-PATENT-CLASS-126-438
N79-31753*	c 44	.....		NASA-CASE-NPO-14467-1	N80-10709*	c 46	.....	NASA-CASE-NPO-14231-1				US-PATENT-CLASS-126-442
				US-PATENT-APPL-SN-946994				US-PATENT-APPL-SN-903019				US-PATENT-CLASS-350-295
				US-PATENT-CLASS-136-89PC				US-PATENT-CLASS-175-78				US-PATENT-CLASS-350-296
				US-PATENT-4,162,928				US-PATENT-CLASS-73-155				US-PATENT-4,173,397
								US-PATENT-4,167,111	N80-14474*	c 44	.....	NASA-CASE-NPO-13652-3

				US-PATENT-APPL-SN-809890				US-PATENT-CLASS-73-188				US-PATENT-CLASS-156-278	
				US-PATENT-APPL-SN-891358				US-PATENT-CLASS-73-189				US-PATENT-CLASS-156-285	
				US-PATENT-CLASS-136-89P				US-PATENT-CLASS-73-212				US-PATENT-CLASS-156-303	
				US-PATENT-CLASS-29-572				US-PATENT-4,184,149				US-PATENT-CLASS-156-312	
				US-PATENT-CLASS-29-588	N80-18039*	c 07	.....	NASA-CASE-LEW-12971-1				US-PATENT-4,184,903
				US-PATENT-CLASS-29-627				US-PATENT-APPL-SN-858936	N80-18551*	c 44	.....	NASA-CASE-NPO-14096-1
				US-PATENT-4,133,697				US-PATENT-CLASS-60-240				US-PATENT-APPL-SN-928128	
				US-PATENT-4,173,820				US-PATENT-CLASS-60-39.03				US-PATENT-CLASS-324-158D	
N80-14579*	c 45	.....		NASA-CASE-NPO-14340-1				US-PATENT-CLASS-60-39.27				US-PATENT-CLASS-324-404
				US-PATENT-APPL-SN-946992				US-PATENT-4,184,327				US-PATENT-4,184,111	
				US-PATENT-CLASS-210-57	N80-18097*	c 20	.....	NASA-CASE-MS-18179-1	N80-18552*	c 44	.....	NASA-CASE-LAR-11999-1
				US-PATENT-CLASS-210-63Z				US-PATENT-APPL-SN-931218				US-PATENT-APPL-SN-876299	
				US-PATENT-CLASS-422-9				US-PATENT-CLASS-60-632				US-PATENT-CLASS-250-211K	
				US-PATENT-4,172,786				US-PATENT-4,183,217				US-PATENT-CLASS-250-231SE	
N80-14603*	c 46	.....		NASA-CASE-NPO-14124-1	N80-18231*	c 31	.....	NASA-CASE-NPO-14382-1				US-PATENT-4,184,072
				US-PATENT-APPL-SN-863024				US-PATENT-APPL-SN-891373	N80-18667*	c 48	.....	NASA-CASE-MFS-23862-1
				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-261-118				US-PATENT-APPL-SN-951423	
				US-PATENT-CLASS-343-112D				US-PATENT-CLASS-422-224				US-PATENT-CLASS-73-170A	
				US-PATENT-4,170,776				US-PATENT-CLASS-423-350				US-PATENT-4,184,368	
N80-14684*	c 52	.....		NASA-CASE-LEW-12955-1				US-PATENT-4,188,368				NASA-CASE-LEW-12723-1
				US-PATENT-APPL-SN-829318	N80-18252*	c 32	.....	NASA-CASE-NPO-14152-1				US-PATENT-APPL-SN-829317
				US-PATENT-CLASS-128-276				US-PATENT-APPL-SN-899828				US-PATENT-CLASS-128-276	
				US-PATENT-4,157,718				US-PATENT-CLASS-178-58R				US-PATENT-CLASS-128-760	
N80-14687*	c 52	.....		NASA-CASE-NPO-14101-1				US-PATENT-CLASS-179-15BA				US-PATENT-4,184,491
				US-PATENT-APPL-SN-772434				US-PATENT-4,187,394	N80-18691*	c 52	.....	NASA-CASE-ARC-11120-1
				US-PATENT-CLASS-210-22	N80-18253*	c 32	.....	NASA-CASE-NPO-14328-1				US-PATENT-APPL-SN-796256
				US-PATENT-CLASS-210-321B				NASA-CASE-NPO-14579-1				US-PATENT-CLASS-128-748	
				US-PATENT-4,094,775				NASA-CASE-NPO-14590-1				US-PATENT-CLASS-128-903	
N80-14877*	c 72	.....		NASA-CASE-NPO-14078-1				US-PATENT-APPL-SN-956160				US-PATENT-CLASS-73-724
				US-PATENT-APPL-SN-856466				US-PATENT-CLASS-325-305				US-PATENT-4,186,749	
				US-PATENT-CLASS-250-281				US-PATENT-CLASS-325-307		N80-18951*	c 76	NASA-CASE-GSC-12291-1
				US-PATENT-CLASS-250-282				US-PATENT-CLASS-325-419				US-PATENT-APPL-SN-906298	
				US-PATENT-CLASS-250-423P				US-PATENT-4,186,347				US-PATENT-CLASS-125-23R	
				US-PATENT-4,158,775	N80-18285*	c 33	.....	NASA-CASE-NPO-14229-1				US-PATENT-CLASS-269-21
N80-16116*	c 25	.....		NASA-CASE-ARC-11107-1				US-PATENT-APPL-SN-835419				US-PATENT-CLASS-51-235
				US-PATENT-APPL-SN-883961				US-PATENT-APPL-SN-949886				US-PATENT-CLASS-83-152	
				US-PATENT-CLASS-521-124				US-PATENT-CLASS-200-153S				US-PATENT-CLASS-83-870	
				US-PATENT-CLASS-521-125				US-PATENT-CLASS-200-304				US-PATENT-4,184,472	
				US-PATENT-CLASS-521-127				US-PATENT-CLASS-333-262		N80-20224*	c 02	NASA-CASE-LAR-12261-1
				US-PATENT-CLASS-521-157				US-PATENT-4,187,416				US-PATENT-APPL-SN-964009	
				US-PATENT-CLASS-528-73	N80-18286*	c 33	.....	NASA-CASE-GSC-12347-1				US-PATENT-CLASS-73-147
				US-PATENT-4,177,333				US-PATENT-APPL-SN-868249				US-PATENT-CLASS-73-205L	
N80-16158*	c 27	.....		NASA-CASE-LAR-12099-1				US-PATENT-CLASS-174-142				US-PATENT-4,188,823
				US-PATENT-APPL-SN-906299				US-PATENT-CLASS-174-73R		N80-20334*	c 25	NASA-CASE-NPO-14079-1
				US-PATENT-CLASS-528-207				US-PATENT-4,185,164				US-PATENT-APPL-SN-958573	
				US-PATENT-CLASS-528-208	N80-18287*	c 33	.....	NASA-CASE-NPO-14224-1				US-PATENT-CLASS-250-307
				US-PATENT-4,180,648				US-PATENT-APPL-SN-951829				US-PATENT-CLASS-250-308	
N80-16163* #	c 27	.....		NASA-CASE-NPO-14021-2				US-PATENT-CLASS-310-306				US-PATENT-4,194,115
				US-PATENT-APPL-SN-106188				US-PATENT-CLASS-343-100R		N80-20402*	c 28	NASA-CASE-LEW-12081-2
N80-16261* #	c 32	.....		NASA-CASE-NPO-14362-1				US-PATENT-CLASS-343-100ST				US-PATENT-APPL-SN-837794
				US-PATENT-APPL-SN-106118				US-PATENT-4,187,506				US-PATENT-CLASS-149-1	
N80-16321*	c 36	.....		NASA-CASE-LAR-12176-1	N80-18357*	c 35	.....	NASA-CASE-NPO-14501-1				US-PATENT-CLASS-423-648R
				US-PATENT-APPL-SN-929083				US-PATENT-APPL-SN-918535				US-PATENT-4,193,827	
				US-PATENT-CLASS-332-751				US-PATENT-CLASS-264-40.4		N80-20448*	c 32	NASA-CASE-NPO-14480-1
				US-PATENT-CLASS-350-359				US-PATENT-CLASS-73-343R				US-PATENT-APPL-SN-910707	
				US-PATENT-CLASS-356-243				US-PATENT-CLASS-73-56				US-PATENT-CLASS-325-14	
				US-PATENT-CLASS-356-28				US-PATENT-4,185,493				US-PATENT-CLASS-325-4	
				US-PATENT-4,176,950	N80-18358*	c 35	.....	NASA-CASE-LAR-12269-1				US-PATENT-CLASS-325-8
N80-16452*	c 44	.....		NASA-CASE-MFS-23518-3				US-PATENT-APPL-SN-934576				US-PATENT-CLASS-325-8
				US-PATENT-APPL-SN-829390				US-PATENT-CLASS-73-4R				US-PATENT-CLASS-325-9	
				US-PATENT-APPL-SN-910793				US-PATENT-CLASS-73-40		N80-20487*	c 33	NASA-CASE-LEW-13148-1
				US-PATENT-CLASS-126-417				US-PATENT-4,182,158				US-PATENT-APPL-SN-964754	
				US-PATENT-CLASS-126-901	N80-18359*	c 35	.....	NASA-CASE-GSC-12219-1				US-PATENT-CLASS-429-101
				US-PATENT-CLASS-428-629				US-PATENT-APPL-SN-891356				US-PATENT-CLASS-429-105	
				US-PATENT-CLASS-428-650				US-PATENT-CLASS-325-363				US-PATENT-CLASS-429-107	
				US-PATENT-CLASS-428-658				US-PATENT-CLASS-343-100ME				US-PATENT-CLASS-429-109	
				US-PATENT-CLASS-428-675				US-PATENT-CLASS-356-216				US-PATENT-CLASS-429-109	
				US-PATENT-CLASS-428-680				US-PATENT-CLASS-73-355R				US-PATENT-4,192,910	
				US-PATENT-4,104,134				US-PATENT-4,178,100		N80-20559*	c 35	NASA-CASE-LAR-12304-1
				US-PATENT-4,177,325	N80-18364* #	c 35	.....	NASA-CASE-NPO-13606-2				US-PATENT-APPL-SN-928130
N80-16714*	c 51	.....		NASA-CASE-MS-16260-1				US-PATENT-APPL-SN-065676				US-PATENT-CLASS-29-25.35
				US-PATENT-APPL-SN-876440	N80-18372*	c 36	.....	NASA-CASE-NPO-14254-1				US-PATENT-CLASS-310-311
				US-PATENT-CLASS-23-927				US-PATENT-APPL-SN-876432				US-PATENT-CLASS-310-327	
				US-PATENT-CLASS-422-52				US-PATENT-CLASS-330-4				US-PATENT-CLASS-310-334	
				US-PATENT-CLASS-435-34				US-PATENT-CLASS-331-94				US-PATENT-CLASS-310-360	
				US-PATENT-4,176,007				US-PATENT-CLASS-333-24R				US-PATENT-4,195,244	
N80-16715*	c 51		NASA-CASE-MFS-23883-1				US-PATENT-4,187,470		N80-20560*	c 35	NASA-CASE-FRC-10093-1
				US-PATENT-APPL-SN-017888				NASA-CASE-ARC-11157-1				US-PATENT-APPL-SN-878539	
				US-PATENT-CLASS-204-180R				US-PATENT-APPL-SN-935827				US-PATENT-CLASS-219-85CA	
				US-PATENT-CLASS-204-299R				US-PATENT-CLASS-220-423				US-PATENT-CLASS-219-85CM	
				US-PATENT-CLASS-424-12				US-PATENT-CLASS-220-445				US-PATENT-CLASS-219-85R	
				US-PATENT-4,181,589				US-PATENT-CLASS-220-901				US-PATENT-CLASS-338-2	
N80-16725*	c 52	.....		NASA-CASE-NPO-14092-1				US-PATENT-4,184,609				US-PATENT-4,195,279
				US-PATENT-APPL-SN-807597	N80-18400* #	c 37	NASA-CASE-NPO-12131-3		N80-20563*	c 35	NASA-CASE-NPO-14093-1
				US-PATENT-CLASS-128-DIG.9				US-PATENT-APPL-SN-096255				US-PATENT-APPL-SN-880729	
				US-PATENT-CLASS-128-348	N80-18498*	c 43	.....	NASA-CASE-LAR-12344-1				US-PATENT-CLASS-356-346
				US-PATENT-CLASS-128-6				US-PATENT-APPL-SN-945041				US-PATENT-4,193,693	
				US-PATENT-CLASS-138-103				US-PATENT-CLASS-343-18B		N80-20808*	c 44	NASA-CASE-NPO-14237-1
				US-PATENT-CLASS-138-133				US-PATENT-CLASS-343-18D				US-PATENT-APPL-SN-897831	
				US-PATENT-CLASS-138-33				US-PATENT-CLASS-343-5CM				US-PATENT-CLASS-126-263	
				US-PATENT-CLASS-219-201				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-149-15	
				US-PATENT-CLASS-219-522				US-PATENT-4,184,155				US-PATENT-CLASS-149-37	
				US-PATENT-4,176,662	N80-18550*	c 44	.....	NASA-CASE-NPO-14303-1				US-PATENT-CLASS-220-429
N80-18036*	c 06	.....		NASA-CASE-FRC-11009-1				NASA-CASE-NPO-14305-1				US-PATENT-4,193,388
				US-PATENT-APPL-SN-910708				US-PATENT-APPL-SN-928133		N80-20810*	c 44	NASA-CASE-LAR-12205-1
				US-PATENT-CLASS-340-177VA				US-PATENT-CLASS-156-104				US-PATENT-APPL-SN-900843	

			US-PATENT-CLASS-126-419			US-PATENT-APPL-SN-848419			US-PATENT-APPL-SN-956529
			US-PATENT-CLASS-126-434			US-PATENT-CLASS-73-12			US-PATENT-CLASS-250-338
			US-PATENT-CLASS-126-437			US-PATENT-CLASS-73-82			US-PATENT-CLASS-250-352
			US-PATENT-CLASS-165-32			US-PATENT-4,195,512			US-PATENT-CLASS-250-353
			US-PATENT-4,192,290			NASA-CASE-FRC-11012-1			US-PATENT-CLASS-356-328
N80-21138*	c 74		NASA-CASE-LAR-12178-1	N80-23969*	c 52	US-PATENT-APPL-SN-928137	N80-26658*	c 37	NASA-CASE-LEW-12131-2
			US-PATENT-APPL-SN-953390			US-PATENT-CLASS-128-666			US-PATENT-APPL-SN-801290
			US-PATENT-CLASS-350-25			US-PATENT-CLASS-128-690			US-PATENT-APPL-SN-931090
			US-PATENT-CLASS-350-285			US-PATENT-4,198,988			US-PATENT-CLASS-415-174
			US-PATENT-CLASS-356-150	N80-24149*	c 74	NASA-CASE-GSC-12348-1			US-PATENT-CLASS-415-196
			US-PATENT-CLASS-356-152			US-PATENT-APPL-SN-929088			US-PATENT-4,135,851
			US-PATENT-4,189,234			US-PATENT-CLASS-51-277			US-PATENT-4,207,024
N80-21140*	c 74		NASA-CASE-GSC-12357-1			US-PATENT-CLASS-51-283R	N80-27067*	c 51	NASA-CASE-MSC-16777-1
			US-PATENT-APPL-SN-943089			US-PATENT-CLASS-65-61			US-PATENT-APPL-SN-893657
			US-PATENT-CLASS-250-277CH			US-PATENT-4,198,788			US-PATENT-CLASS-204-195B
			US-PATENT-CLASS-250-280	N80-24437*	c 27	NASA-CASE-LEW-13027-1			US-PATENT-CLASS-23-230B
			US-PATENT-CLASS-350-162R			US-PATENT-APPL-SN-958575			US-PATENT-CLASS-422-68
			US-PATENT-CLASS-356-334			US-PATENT-CLASS-427-164			US-PATENT-CLASS-435-289
			US-PATENT-4,192,994			US-PATENT-CLASS-427-38			US-PATENT-CLASS-435-290
N80-21719*	c 35		NASA-CASE-GSC-12273-1			US-PATENT-CLASS-427-40			US-PATENT-CLASS-435-291
			US-PATENT-APPL-SN-897830			US-PATENT-CLASS-428-421			US-PATENT-CLASS-435-3
			US-PATENT-CLASS-244-165			US-PATENT-CLASS-428-474			US-PATENT-CLASS-435-311
			US-PATENT-CLASS-244-170			US-PATENT-4,199,650			US-PATENT-CLASS-435-316
			US-PATENT-4,193,570	N80-24438*	c 27	NASA-CASE-MSC-14903-3			US-PATENT-CLASS-435-32
N80-21828*	c 44		NASA-CASE-MFS-23515-1			US-PATENT-APPL-SN-706424			US-PATENT-CLASS-435-34
			US-PATENT-APPL-SN-880726			US-PATENT-APPL-SN-907479			US-PATENT-CLASS-435-38
			US-PATENT-CLASS-415-101			US-PATENT-CLASS-260-DIG.29			US-PATENT-CLASS-435-39
			US-PATENT-CLASS-415-2			US-PATENT-CLASS-525-326			US-PATENT-4,204,037
			US-PATENT-4,191,505			US-PATENT-CLASS-525-336	N80-27072*	c 52	NASA-CASE-NPO-14212-1
N80-23383*	c 25		NASA-CASE-ARC-11154-1			US-PATENT-CLASS-525-340			US-PATENT-APPL-SN-838308
			US-PATENT-APPL-SN-921626			US-PATENT-CLASS-525-374			US-PATENT-CLASS-128-642
			US-PATENT-CLASS-521-146			US-PATENT-CLASS-525-375			US-PATENT-CLASS-128-774
			US-PATENT-CLASS-521-55			US-PATENT-CLASS-526-261			US-PATENT-CLASS-128-782
			US-PATENT-CLASS-521-918			US-PATENT-CLASS-526-275			US-PATENT-CLASS-33-125R
			US-PATENT-CLASS-525-4			US-PATENT-CLASS-526-276			US-PATENT-CLASS-338-2
			US-PATENT-CLASS-55-66			US-PATENT-CLASS-526-278			US-PATENT-CLASS-73-781
			US-PATENT-CLASS-55-67			US-PATENT-CLASS-528-481			US-PATENT-4,204,544
			US-PATENT-CLASS-55-68			US-PATENT-4,200,721			NASA-CASE-NPO-14324-1
			US-PATENT-CLASS-55-72	N80-24510*	c 32	NASA-CASE-NPO-14524-1	N80-27163*	c 72	US-PATENT-APPL-SN-940970
			US-PATENT-4,198,792			NASA-CASE-NPO-14527-1			US-PATENT-CLASS-250-427
N80-23419*	c 26		NASA-CASE-MFS-23816-1			US-PATENT-APPL-SN-957452			US-PATENT-CLASS-313-156
			US-PATENT-APPL-SN-974292			US-PATENT-CLASS-350-294			US-PATENT-CLASS-313-362
			US-PATENT-CLASS-148-32			US-PATENT-CLASS-350-6.5			US-PATENT-CLASS-313-363
			US-PATENT-CLASS-75-135			US-PATENT-CLASS-350-6.6			US-PATENT-4,206,383
			US-PATENT-CLASS-75-138			US-PATENT-CLASS-356-28.5			NASA-CASE-LAR-12251-1
			US-PATENT-CLASS-75-178R			US-PATENT-4,201,468	N80-27185*	c 74	US-PATENT-APPL-SN-953389
			US-PATENT-4,198,232			NASA-CASE-LEW-12441-2			US-PATENT-CLASS-350-175E
N80-23452*	c 27		NASA-CASE-ARC-10980-1			US-PATENT-APPL-SN-559846			US-PATENT-CLASS-350-226
			US-PATENT-APPL-SN-694407			US-PATENT-APPL-SN-856462			US-PATENT-4,206,970
			US-PATENT-CLASS-204-171			US-PATENT-CLASS-239-127.1			NASA-CASE-FRC-11024-1
			US-PATENT-CLASS-210-23H			US-PATENT-CLASS-60-267	N80-28300*	c 02	US-PATENT-APPL-SN-015983
			US-PATENT-CLASS-210-500M			US-PATENT-4,199,937			US-PATENT-CLASS-73-180
			US-PATENT-CLASS-427-245			NASA-CASE-NPO-14635-1			US-PATENT-CLASS-73-182
			US-PATENT-CLASS-427-41	N80-24741*	c 44	US-PATENT-APPL-SN-008212			US-PATENT-CLASS-73-861.65
			US-PATENT-4,199,448			US-PATENT-CLASS-136-89SG			US-PATENT-CLASS-73-861.66
N80-23471*	c 28		NASA-CASE-NPO-14109-1			US-PATENT-CLASS-156-DIG.64			US-PATENT-4,212,199
			US-PATENT-APPL-SN-946990			US-PATENT-CLASS-156-605			NASA-CASE-LAR-11821-1
			US-PATENT-CLASS-149-108.4			US-PATENT-CLASS-156-605	N80-28492*	c 26	US-PATENT-APPL-SN-023501
			US-PATENT-CLASS-23-300			US-PATENT-CLASS-156-617SP			US-PATENT-CLASS-148-131
			US-PATENT-CLASS-23-302A			US-PATENT-CLASS-252-62.3E			US-PATENT-CLASS-266-119
			US-PATENT-CLASS-23-302R			US-PATENT-4,210,622			US-PATENT-CLASS-266-249
			US-PATENT-CLASS-23-302T			NASA-CASE-NPO-14558-1			US-PATENT-CLASS-266-274
			US-PATENT-4,198,209			US-PATENT-APPL-SN-945436			US-PATENT-4,212,690
N80-23524*	c 32		NASA-CASE-NPO-14519-1			US-PATENT-CLASS-73-155			NASA-CASE-NPO-14477-1
			US-PATENT-APPL-SN-008207			US-PATENT-4,196,619	N80-28536*	c 28	US-PATENT-APPL-SN-951830
			US-PATENT-CLASS-343-786			NASA-CASE-ARC-10814-2			US-PATENT-CLASS-149-19.2
			US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-684045			US-PATENT-CLASS-149-19.9
			US-PATENT-4,199,764			US-PATENT-APPL-SN-831632			US-PATENT-CLASS-149-20
N80-23559*	c 33		NASA-CASE-NPO-13804-1			US-PATENT-CLASS-60-39.06			US-PATENT-4,210,474
			US-PATENT-APPL-SN-766999			US-PATENT-CLASS-60-733			NASA-CASE-GSC-12365-1
			US-PATENT-CLASS-310-319			US-PATENT-CLASS-60-746			US-PATENT-APPL-SN-039031
			US-PATENT-CLASS-331-65			US-PATENT-4,204,402			US-PATENT-CLASS-343-100SA
			US-PATENT-CLASS-340-602			NASA-CASE-MFS-23626-1			US-PATENT-CLASS-343-844
			US-PATENT-CLASS-340-604			US-PATENT-APPL-SN-941711			US-PATENT-CLASS-343-854
			US-PATENT-4,197,530			US-PATENT-CLASS-156-212			US-PATENT-4,213,131
N80-23653*	c 37		NASA-CASE-MSC-16938-1			US-PATENT-CLASS-156-213			NASA-CASE-LAR-11370-1
			US-PATENT-APPL-SN-938582			US-PATENT-CLASS-156-285			US-PATENT-APPL-SN-940689
			US-PATENT-CLASS-151-41.76			US-PATENT-CLASS-260-17.2	N80-28686*	c 35	US-PATENT-CLASS-250-457
			US-PATENT-4,193,435			US-PATENT-CLASS-264-118			US-PATENT-CLASS-250-491
N80-23654*	c 37		NASA-CASE-NPO-14473-1			US-PATENT-CLASS-264-119			US-PATENT-CLASS-250-513
			US-PATENT-APPL-SN-938300			US-PATENT-CLASS-264-124			US-PATENT-4,213,051
			US-PATENT-CLASS-137-375			US-PATENT-4,204,899			NASA-CASE-LAR-12285-1
			US-PATENT-CLASS-137-625.4			NASA-CASE-MSC-16074-1			US-PATENT-APPL-SN-929087
			US-PATENT-CLASS-251-138			US-PATENT-APPL-SN-747674			US-PATENT-CLASS-356-244
			US-PATENT-CLASS-251-86			US-PATENT-CLASS-204-159.15			US-PATENT-CLASS-356-369
			US-PATENT-4,195,666			US-PATENT-CLASS-204-159.19			US-PATENT-4,210,401
N80-23655*	c 37		NASA-CASE-GSC-12318-1			US-PATENT-CLASS-525-426			NASA-CASE-LEW-12119-1
			US-PATENT-APPL-SN-894213			US-PATENT-CLASS-8-DIG.12			US-PATENT-APPL-SN-672219
			US-PATENT-CLASS-219-160			US-PATENT-CLASS-8-DIG.18			US-PATENT-CLASS-277-153
			US-PATENT-CLASS-219-161			US-PATENT-CLASS-8-115.5			US-PATENT-CLASS-277-193
			US-PATENT-CLASS-228-212			US-PATENT-4,203,723			US-PATENT-CLASS-277-224
			US-PATENT-CLASS-228-222	N80-26599*	c 33	NASA-CASE-FRC-10113-1			US-PATENT-4,212,477
			US-PATENT-CLASS-228-44.1R			US-PATENT-APPL-SN-885066			NASA-CASE-LAR-11745-1
			US-PATENT-CLASS-269-287			US-PATENT-CLASS-324-51			US-PATENT-APPL-SN-799025
			US-PATENT-4,196,840			US-PATENT-4,204,154	N80-29539*	c 32	US-PATENT-CLASS-343-786
N80-23711*	c 43		NASA-CASE-MFS-23720-1			NASA-CASE-NPO-14372-1			
						US-PATENT-APPL-SN-646333			

		US-PATENT-4,089,004		US-PATENT-APPL-SN-938293		US-PATENT-CLASS-260-898	
N80-29583* #	c 33	NASA-CASE-FRC-11055-1		US-PATENT-CLASS-333-12		US-PATENT-CLASS-260-901	
		US-PATENT-APPL-SN-172098		US-PATENT-CLASS-333-252		US-PATENT-CLASS-521-27	
N80-29703*	c 37	NASA-CASE-NPO-14406-1		US-PATENT-CLASS-333-99S		US-PATENT-CLASS-521-32	
		US-PATENT-APPL-SN-951828		US-PATENT-4,215,327		US-PATENT-CLASS-521-62	
		US-PATENT-CLASS-125-21	N80-32650*	c 33	NASA-CASE-NPO-14424-1	US-PATENT-4,119,581	
		US-PATENT-CLASS-83-820		NASA-CASE-NPO-14430-1	N81-14077*	c 27	
		US-PATENT-4,191,159		US-PATENT-APPL-SN-918534		NASA-CASE-MSC-12631-3	
N80-29834*	c 44	NASA-CASE-LAR-11551-1		US-PATENT-CLASS-324-62		US-PATENT-APPL-SN-006952	
		US-PATENT-APPL-SN-883090		US-PATENT-CLASS-324-64		US-PATENT-APPL-SN-568541	
		US-PATENT-CLASS-290-53		US-PATENT-4,218,650		US-PATENT-APPL-SN-785279	
		US-PATENT-CLASS-310-30	N80-32716*	c 37	NASA-CASE-MFS-23777-1	US-PATENT-CLASS-156-154	
		US-PATENT-4,191,893		US-PATENT-APPL-SN-931217		US-PATENT-CLASS-156-160	
N80-29835*	c 44	NASA-CASE-NPO-13786-1		US-PATENT-CLASS-318-15		US-PATENT-CLASS-156-163	
		US-PATENT-APPL-SN-696374		US-PATENT-CLASS-74-425		US-PATENT-CLASS-156-212	
		US-PATENT-CLASS-148-1.5		US-PATENT-CLASS-74-661		US-PATENT-CLASS-156-267	
		US-PATENT-CLASS-357-30		US-PATENT-CLASS-74-665C		US-PATENT-CLASS-156-295	
		US-PATENT-CLASS-357-52		US-PATENT-4,215,592		US-PATENT-CLASS-156-323	
		US-PATENT-CLASS-357-91	N80-32717*	c 37	NASA-CASE-GSC-12289-1	US-PATENT-CLASS-156-331	
		US-PATENT-4,090,213		US-PATENT-APPL-SN-943086		US-PATENT-4,032,089	
N80-31790*	c 37	NASA-CASE-LEW-12274-1		US-PATENT-CLASS-198-847		US-PATENT-4,225,372	
		US-PATENT-APPL-SN-950876		US-PATENT-CLASS-198-848	N81-14078*	c 27	
		US-PATENT-CLASS-417-383		US-PATENT-CLASS-474-205		NASA-CASE-LAR-12054-2	
		US-PATENT-CLASS-60-520		US-PATENT-4,215,590		US-PATENT-APPL-SN-011737	
		US-PATENT-4,215,548	N80-33081* #	c 52	NASA-CASE-ARC-11258-1	US-PATENT-APPL-SN-839963	
N80-32244*	c 76	NASA-CASE-NPO-14298-1		US-PATENT-APPL-SN-185865		US-PATENT-CLASS-264-137	
		US-PATENT-APPL-SN-938579	N80-33186*	c 72	NASA-CASE-LEW-12940-1	US-PATENT-CLASS-427-385.5	
		US-PATENT-CLASS-156-DIG.96		US-PATENT-APPL-SN-953391		US-PATENT-CLASS-427-429	
		US-PATENT-CLASS-422-246		US-PATENT-CLASS-313-231.4		US-PATENT-CLASS-428-473.5	
		US-PATENT-4,216,186		US-PATENT-CLASS-313-362		US-PATENT-4,166,170	
N80-32245*	c 76	NASA-CASE-NPO-14295-1		US-PATENT-4,218,633	N81-14103*	c 28	
		US-PATENT-APPL-SN-901055	N80-33210*	c 74	NASA-CASE-MSC-18255-1	US-PATENT-4,233,258	
		US-PATENT-CLASS-156-DIG.64		US-PATENT-APPL-SN-025163		NASA-CASE-LEW-12081-3	
		US-PATENT-CLASS-156-DIG.88		US-PATENT-CLASS-250-347		US-PATENT-APPL-SN-009887	
		US-PATENT-CLASS-156-601		US-PATENT-CLASS-250-347		US-PATENT-APPL-SN-676432	
		US-PATENT-CLASS-156-617SP		US-PATENT-CLASS-250-352		US-PATENT-APPL-SN-837794	
		US-PATENT-4,217,165		US-PATENT-CLASS-250-353		US-PATENT-CLASS-149-1	
N80-32359*	c 04	NASA-CASE-NPO-14173-1		US-PATENT-CLASS-350-55		US-PATENT-CLASS-156-344	
		US-PATENT-APPL-SN-938581		US-PATENT-CLASS-356-72		US-PATENT-CLASS-423-648R	
		US-PATENT-CLASS-343-112R	N80-33482*	c 24	US-PATENT-CLASS-356-72	US-PATENT-CLASS-44-7R	
		US-PATENT-4,215,345		US-PATENT-4,215,273		US-PATENT-CLASS-55-2	
N80-32392*	c 07	NASA-CASE-ARC-10977-1		NASA-CASE-LEW-11930-3		US-PATENT-CLASS-62-12	
		US-PATENT-APPL-SN-023436		US-PATENT-APPL-SN-513611		US-PATENT-CLASS-62-18	
		US-PATENT-CLASS-239-127.3		US-PATENT-APPL-SN-616528		US-PATENT-CLASS-62-40	
		US-PATENT-CLASS-239-265.33		US-PATENT-APPL-SN-764245		US-PATENT-CLASS-62-47	
		US-PATENT-CLASS-60-264		US-PATENT-CLASS-75-200		US-PATENT-4,077,788	
		US-PATENT-4,214,703		US-PATENT-CLASS-75-222		US-PATENT-4,193,827	
N80-32484*	c 26	NASA-CASE-LEW-12542-3	N81-12330* #	c 33	US-PATENT-4,214,905	N81-14137*	c 31
		US-PATENT-APPL-SN-007083		NASA-CASE-MFS-25535-1		NASA-CASE-KSC-11064-1	
		US-PATENT-APPL-SN-803822	N81-12542*	c 44	US-PATENT-APPL-SN-199765	US-PATENT-APPL-SN-897840	
		US-PATENT-CLASS-75-124		NASA-CASE-LEW-12806-2		US-PATENT-CLASS-169-62	
		US-PATENT-4,214,902		US-PATENT-APPL-SN-065676		US-PATENT-CLASS-169-70	
N80-32514*	c 27	NASA-CASE-NPO-13137-1		US-PATENT-APPL-SN-915050	N81-14185*	c 32	
		US-PATENT-APPL-SN-332123		US-PATENT-CLASS-136-249		US-PATENT-4,219,084	
		US-PATENT-APPL-SN-374810		US-PATENT-CLASS-136-291		NASA-CASE-NPO-14536-1	
		US-PATENT-CLASS-568-852		US-PATENT-CLASS-363-147		US-PATENT-APPL-SN-974471	
		US-PATENT-CLASS-568-861		US-PATENT-CLASS-363-27		US-PATENT-CLASS-343-100TD	
		US-PATENT-4,118,427		US-PATENT-CLASS-363-60		US-PATENT-4,233,606	
N80-32515*	c 27	NASA-CASE-NPO-13899-1	N81-13999*	c 24	US-PATENT-4,217,633	N81-14186*	c 32
		US-PATENT-APPL-SN-761252		NASA-CASE-ARC-11174-1		NASA-CASE-NPO-14749-1	
		US-PATENT-APPL-SN-761252		US-PATENT-APPL-SN-929086		US-PATENT-APPL-SN-078521	
		US-PATENT-APPL-SN-933186		US-PATENT-CLASS-260-17.2		US-PATENT-CLASS-375-107	
		US-PATENT-CLASS-260-346.3		US-PATENT-CLASS-428-114		US-PATENT-CLASS-455-51	
		US-PATENT-4,196,129		US-PATENT-CLASS-428-528		US-PATENT-CLASS-455-619	
N80-32516*	c 27	NASA-CASE-LEW-13103-1		US-PATENT-CLASS-428-541		US-PATENT-CLASS-455-71	
		US-PATENT-APPL-SN-971596		US-PATENT-CLASS-428-921	N81-14187*	c 32	
		US-PATENT-CLASS-156-272		US-PATENT-4,209,561		NASA-CASE-MSC-16800-1	
		US-PATENT-CLASS-156-292	N81-14000*	c 24	NASA-CASE-LAR-12065-1	US-PATENT-APPL-SN-953313	
		US-PATENT-CLASS-204-159.11		US-PATENT-APPL-SN-889671		US-PATENT-CLASS-343-727	
		US-PATENT-CLASS-204-159.14		US-PATENT-CLASS-156-330		US-PATENT-CLASS-343-789	
		US-PATENT-CLASS-264-212		US-PATENT-CLASS-428-113		US-PATENT-CLASS-343-797	
		US-PATENT-CLASS-264-22		US-PATENT-CLASS-428-114	N81-14220*	c 33	
		US-PATENT-CLASS-427-44		US-PATENT-CLASS-428-140		NASA-CASE-NPO-14163-1	
		US-PATENT-CLASS-428-500		US-PATENT-CLASS-428-413		US-PATENT-APPL-SN-878541	
		US-PATENT-CLASS-429-139		US-PATENT-CLASS-428-480		US-PATENT-CLASS-363-56	
		US-PATENT-4,218,280		US-PATENT-CLASS-428-902		US-PATENT-CLASS-363-71	
N80-32583*	c 31	NASA-CASE-GSC-12191-1	N81-14015*	c 25	US-PATENT-4,229,473		US-PATENT-CLASS-363-78
		US-PATENT-APPL-SN-009886		NASA-CASE-NPO-14143-1	N81-14221*	c 33	
		US-PATENT-CLASS-165-16		US-PATENT-APPL-SN-938297		NASA-CASE-GSC-12411-1	
		US-PATENT-CLASS-236-13		US-PATENT-CLASS-250-343		US-PATENT-APPL-SN-965367	
		US-PATENT-CLASS-236-44C		US-PATENT-CLASS-356-437		US-PATENT-CLASS-340-309.4	
		US-PATENT-CLASS-236-49	N81-14016*	c 25	US-PATENT-4,234,258	US-PATENT-CLASS-340-310A	
		US-PATENT-4,210,278		NASA-CASE-ARC-11241-1		US-PATENT-CLASS-340-310R	
N80-32584*	c 31	NASA-CASE-NPO-14191-1		US-PATENT-APPL-SN-037066		US-PATENT-CLASS-368-47	
		US-PATENT-APPL-SN-830846		US-PATENT-CLASS-260-33.8F		US-PATENT-CLASS-370-85	
		US-PATENT-CLASS-181-102		US-PATENT-CLASS-528-362	N81-14287*	c 35	
		US-PATENT-CLASS-367-27		US-PATENT-CLASS-528-401		NASA-CASE-NPO-14513-1	
		US-PATENT-CLASS-367-36		US-PATENT-CLASS-528-422		US-PATENT-APPL-SN-025162	
		US-PATENT-CLASS-367-57		US-PATENT-4,234,715		US-PATENT-CLASS-165-105	
		US-PATENT-4,214,226	N81-14076*	c 27	NASA-CASE-NPO-14001-1	US-PATENT-CLASS-62-514R	
N80-32604*	c 32	NASA-CASE-MSC-18334-1		US-PATENT-APPL-SN-771245		US-PATENT-4,218,892	
		US-PATENT-APPL-SN-051270		US-PATENT-CLASS-210-24R		NASA-CASE-MSC-16973-1	
		US-PATENT-CLASS-343-700MS		US-PATENT-CLASS-260-17A		US-PATENT-APPL-SN-969566	
		US-PATENT-CLASS-343-830		US-PATENT-CLASS-260-2.1E		US-PATENT-CLASS-150-11	
		US-PATENT-4,218,682		US-PATENT-CLASS-260-858		US-PATENT-CLASS-156-294	
N80-32605*	c 32	NASA-CASE-NPO-14253-1		US-PATENT-CLASS-260-886		US-PATENT-CLASS-52-232	
		NASA-CASE-NPO-14640-1		US-PATENT-CLASS-260-890	N81-14318*	c 37	
				US-PATENT-CLASS-260-895		US-PATENT-CLASS-52-743	
						US-PATENT-4,235,060	
						NASA-CASE-NPO-14220-1	
						US-PATENT-APPL-SN-907421	

			US-PATENT-CLASS-60-518						US-PATENT-CLASS-375-1										US-PATENT-CLASS-333-204
			US-PATENT-CLASS-74-417						US-PATENT-CLASS-375-115										US-PATENT-4,227,096
			US-PATENT-4,228,656						US-PATENT-CLASS-375-58		N81-17349*	c 33							NASA-CASE-MSC-16747-1
N81-14319*	c 37		NASA-CASE-LAR-11855-1						US-PATENT-4,221,005										US-PATENT-APPL-SN-974475
			US-PATENT-APPL-SN-953314																US-PATENT-CLASS-328-134
			US-PATENT-CLASS-407-117																US-PATENT-CLASS-328-37
			US-PATENT-CLASS-407-85																US-PATENT-CLASS-328-55
			US-PATENT-CLASS-408-1R																US-PATENT-CLASS-331-48
			US-PATENT-CLASS-82-1.2																US-PATENT-4,241,308
			US-PATENT-CLASS-82-1C																NASA-CASE-NPO-14388-1
			US-PATENT-CLASS-82-36R																US-PATENT-APPL-SN-008208
			US-PATENT-4,218,941																US-PATENT-CLASS-60-518
N81-14320*	c 37		NASA-CASE-GSC-12429-1																US-PATENT-CLASS-74-417
			US-PATENT-APPL-SN-009888																US-PATENT-4,240,256
			US-PATENT-CLASS-244-161																NASA-CASE-ARC-11251-1
			US-PATENT-CLASS-294-106																US-PATENT-APPL-SN-057465
			US-PATENT-CLASS-414-1																US-PATENT-CLASS-128-DIG.20
			US-PATENT-4,219,171																US-PATENT-CLASS-137-549
N81-14389*	c 44		NASA-CASE-NPO-14416-1																US-PATENT-CLASS-137-886
			US-PATENT-APPL-SN-014664																US-PATENT-CLASS-137-887
			US-PATENT-CLASS-289-DIG.1																US-PATENT-CLASS-251-216
			US-PATENT-CLASS-29-832																US-PATENT-CLASS-251-339
			US-PATENT-4,219,926																US-PATENT-4,239,057
N81-14605*	c 51		NASA-CASE-ARC-11114-1																NASA-CASE-FRC-11013-1
			US-PATENT-APPL-SN-951422																US-PATENT-APPL-SN-043912
			US-PATENT-CLASS-128-DIG.12																US-PATENT-CLASS-244-160
			US-PATENT-CLASS-128-DIG.16																US-PATENT-CLASS-244-49
			US-PATENT-CLASS-128-DIG.26																US-PATENT-4,240,601
			US-PATENT-CLASS-128-DIG.6																NASA-CASE-NPO-14619-1
			US-PATENT-CLASS-128-DIG.9																US-PATENT-APPL-SN-027559
			US-PATENT-CLASS-128-204.18																US-PATENT-CLASS-126-419
			US-PATENT-CLASS-128-207.14																US-PATENT-CLASS-60-524
			US-PATENT-CLASS-128-207.28																US-PATENT-CLASS-60-641
			US-PATENT-CLASS-128-236																US-PATENT-4,236,383
			US-PATENT-4,212,297																NASA-CASE-NPO-14219-1
N81-14612*	c 52		NASA-CASE-ARC-11117-1																US-PATENT-APPL-SN-888432
			US-PATENT-APPL-SN-003693																US-PATENT-CLASS-350-301
			US-PATENT-CLASS-128-642																US-PATENT-CLASS-354-118
			US-PATENT-4,219,027																US-PATENT-CLASS-362-11
N81-14613*	c 52		NASA-CASE-ARC-11118-2																US-PATENT-CLASS-362-241
			US-PATENT-APPL-SN-850504																US-PATENT-4,213,684
			US-PATENT-APPL-SN-974476																NASA-CASE-NPO-14657-1
			US-PATENT-CLASS-424-274																US-PATENT-APPL-SN-008211
			US-PATENT-4,230,717																US-PATENT-CLASS-356-432
N81-14968*	c 02		NASA-CASE-LAR-12326-1																US-PATENT-CLASS-73-15R
			US-PATENT-APPL-SN-019541																US-PATENT-4,243,327
			US-PATENT-CLASS-102-56R																NASA-CASE-NPO-14502-1
			US-PATENT-CLASS-102-92.1																US-PATENT-APPL-SN-965368
			US-PATENT-CLASS-244-119																US-PATENT-CLASS-356-345
			US-PATENT-CLASS-244-130																US-PATENT-CLASS-356-352
			US-PATENT-4,225,102																US-PATENT-CLASS-356-358
N81-14999*	c 07		NASA-CASE-LEW-13201-1																US-PATENT-4,243,323
			US-PATENT-APPL-SN-038980																NASA-CASE-LAR-11797-1
			US-PATENT-CLASS-137-15.1																US-PATENT-APPL-SN-969755
			US-PATENT-CLASS-181-214																US-PATENT-CLASS-244-17.25
			US-PATENT-4,220,171																US-PATENT-CLASS-416-114
N81-15104*	c 27		NASA-CASE-NPO-10830-1																US-PATENT-CLASS-416-500
			US-PATENT-APPL-SN-825489																US-PATENT-CLASS-416-510
			US-PATENT-CLASS-117-6																US-PATENT-CLASS-74-519
			US-PATENT-CLASS-138.8R																US-PATENT-4,245,956
			US-PATENT-CLASS-260-33.6UB																NASA-CASE-LEW-12907-2
			US-PATENT-CLASS-33.8UB																US-PATENT-APPL-SN-752050
			US-PATENT-CLASS-37N																US-PATENT-APPL-SN-909235
			US-PATENT-CLASS-41R																US-PATENT-CLASS-364-106
			US-PATENT-CLASS-77.5AQ																US-PATENT-CLASS-364-431
			US-PATENT-CLASS-77.5CH																US-PATENT-CLASS-60-39.24
			US-PATENT-CLASS-859R																US-PATENT-4,249,238
			US-PATENT-CLASS-94.9N																NASA-CASE-LEW-12594-2
			US-PATENT-3,655,814																US-PATENT-APPL-SN-741056
N81-15119*	c 28		NASA-CASE-NPO-14110-1																US-PATENT-APPL-SN-909608
			US-PATENT-APPL-SN-947000																US-PATENT-CLASS-60-226R
			US-PATENT-CLASS-149-108.4																US-PATENT-CLASS-60-236
			US-PATENT-CLASS-23-293R																US-PATENT-CLASS-60-238
			US-PATENT-CLASS-252-364																US-PATENT-CLASS-60-239
			US-PATENT-CLASS-260-96D																US-PATENT-4,242,864
			US-PATENT-CLASS-423-1																NASA-CASE-LAR-11970-2
			US-PATENT-CLASS-423-131																US-PATENT-APPL-SN-034104
			US-PATENT-CLASS-423-658.5																US-PATENT-APPL-SN-727503
			US-PATENT-CLASS-525-384																US-PATENT-CLASS-244-12.5
			US-PATENT-CLASS-526-914																US-PATENT-CLASS-244-52
			US-PATENT-CLASS-75-25																US-PATENT-CLASS-244-87
			US-PATENT-4,229,182																US-PATENT-4,236,684
N81-15154*	c 31		NASA-CASE-NPO-13758-2																NASA-CASE-MFS-25000-1
			US-PATENT-APPL-SN-623389																US-PATENT-APPL-SN-974474
			US-PATENT-APPL-SN-727444																US-PATENT-CLASS-260-29.6RB
			US-PATENT-CLASS-110-218																US-PATENT-CLASS-526-201
			US-PATENT-CLASS-110-229																US-PATENT-CLASS-526-88
			US-PATENT-CLASS-110-232																US-PATENT-4,247,434
			US-PATENT-CLASS-110-343																NASA-CASE-NPO-13309-1
			US-PATENT-CLASS-110-347																US-PATENT-APPL-SN-363130
			US-PATENT-CLASS-202-118																US-PATENT-CLASS-210-24
			US-PATENT-CLASS-264-23																US-PATENT-CLASS-260-2.1E
			US-PATENT-CLASS-425-378R																US-PATENT-CLASS-260-2.2R
			US-PATENT-4,206,713																US-PATENT-CLASS-264-41
N81-15179*	c 32		NASA-CASE-MSC-18035-1																US-PATENT-3,944,485
			US-PATENT-APPL-SN-041142																NASA-CASE-LEW-12933-1
																			US-PATENT-APPL-SN-027557

				US-PATENT-CLASS-260-33.4R	N81-22360* #	c 37	NASA-CASE-LEW-12445-1	US-PATENT-CLASS-422-3
				US-PATENT-CLASS-427-221			US-PATENT-APPL-SN-238887	US-PATENT-CLASS-422-30
				US-PATENT-CLASS-427-379	N81-24106*	c 08	NASA-CASE-LAR-12268-1	US-PATENT-CLASS-422-34
				US-PATENT-CLASS-528-353			US-PATENT-APPL-SN-015996	US-PATENT-4.250.143
N81-19343*	c 31			US-PATENT-4.244.853			US-PATENT-CLASS-244-181	NASA-CASE-KSC-11048-1
				NASA-CASE-GSC-12513-1			US-PATENT-CLASS-244-195	US-PATENT-APPL-SN-023437
				US-PATENT-APPL-SN-053571			US-PATENT-CLASS-318-584	US-PATENT-CLASS-364-200
				US-PATENT-CLASS-109-49.5			US-PATENT-CLASS-364-434	US-PATENT-4.254.464
				US-PATENT-CLASS-109-58.5	N81-24256*	c 27	US-PATENT-4.261.537	NASA-CASE-GSC-12528-1
				US-PATENT-CLASS-220-82R			NASA-CASE-ARC-11253-3	US-PATENT-APPL-SN-111439
				US-PATENT-CLASS-220-89A			US-PATENT-APPL-SN-028301	US-PATENT-CLASS-250-368
				US-PATENT-CLASS-49-171			US-PATENT-APPL-SN-145283	US-PATENT-CLASS-250-483
				US-PATENT-4.245.566			US-PATENT-CLASS-260-465.5R	US-PATENT-4.262.206
N81-19389*	c 33			NASA-CASE-NPO-14297-1			US-PATENT-CLASS-528-310	NASA-CASE-NPO-15102-1
				US-PATENT-APPL-SN-938299			US-PATENT-CLASS-564-229	US-PATENT-APPL-SN-154726
				US-PATENT-CLASS-156-DIG.96			US-PATENT-4.269.787	US-PATENT-CLASS-250-350
				US-PATENT-CLASS-156-608	N81-24257*	c 27	NASA-CASE-LEW-13135-2	US-PATENT-CLASS-356-432
				US-PATENT-CLASS-219-10.49R			US-PATENT-APPL-SN-113014	US-PATENT-4.253.769
				US-PATENT-CLASS-219-10.67			US-PATENT-APPL-SN-971475	NASA-CASE-LEW-13088-1
				US-PATENT-CLASS-422-246			US-PATENT-CLASS-264-104	US-PATENT-APPL-SN-089779
				US-PATENT-CLASS-422-249			US-PATENT-CLASS-264-105	US-PATENT-CLASS-428-471
				US-PATENT-CLASS-432-264			US-PATENT-CLASS-429-139	US-PATENT-CLASS-428-632
				US-PATENT-4.242.553			US-PATENT-CLASS-429-249	US-PATENT-CLASS-428-678
N81-19392*	c 33			NASA-CASE-GSC-12360-1			US-PATENT-CLASS-429-253	US-PATENT-CLASS-428-679
				US-PATENT-APPL-SN-041164			US-PATENT-CLASS-429-27	US-PATENT-CLASS-428-680
				US-PATENT-CLASS-363-101			US-PATENT-CLASS-429-28	US-PATENT-4.255.495
				US-PATENT-CLASS-363-21			US-PATENT-CLASS-525-61	NASA-CASE-MS-18107-1
				US-PATENT-4.245.286	N81-24258*	c 27	US-PATENT-4.262.067	US-PATENT-APPL-SN-956168
N81-19393*	c 33			NASA-CASE-NPO-14505-1			NASA-CASE-NPO-10424-1	US-PATENT-CLASS-430-271
				US-PATENT-APPL-SN-956166			US-PATENT-APPL-SN-692636	US-PATENT-CLASS-430-325
				US-PATENT-CLASS-363-21			US-PATENT-CLASS-260-37	US-PATENT-CLASS-430-329
				US-PATENT-CLASS-363-36			US-PATENT-3.651.008	US-PATENT-CLASS-430-330
				US-PATENT-CLASS-363-40	N81-24280*	c 28	NASA-CASE-MS-16394-1	US-PATENT-4.262.080
				US-PATENT-CLASS-363-47			US-PATENT-APPL-SN-161255	NASA-CASE-LAR-12095-1
				US-PATENT-4.245.288			US-PATENT-CLASS-204-129	US-PATENT-APPL-SN-811401
N81-19426*	c 35			NASA-CASE-MFS-23923-1			US-PATENT-CLASS-204-252	US-PATENT-CLASS-244-158R
				US-PATENT-APPL-SN-053569			US-PATENT-CLASS-204-266	US-PATENT-CLASS-403-171
				US-PATENT-CLASS-73-190R			US-PATENT-CLASS-204-290F	US-PATENT-CLASS-428-902
				US-PATENT-4.248.083			US-PATENT-CLASS-204-290R	US-PATENT-CLASS-52-309.1
N81-19427*	c 35			NASA-CASE-MS-16370-1			US-PATENT-CLASS-204-291	US-PATENT-CLASS-52-648
				US-PATENT-APPL-SN-061556			US-PATENT-4.263.112	US-PATENT-CLASS-52-726
				US-PATENT-CLASS-329-107	N81-24338*	c 33	NASA-CASE-NPO-14617-1	US-PATENT-4.259.821
				US-PATENT-CLASS-329-50			US-PATENT-APPL-SN-051269	NASA-CASE-LAR-12077-1
				US-PATENT-CLASS-375-1			US-PATENT-CLASS-330-8	US-PATENT-APPL-SN-014663
				US-PATENT-CLASS-375-104			US-PATENT-4.262.259	US-PATENT-CLASS-52-645
				US-PATENT-CLASS-375-34	N81-24422*	c 36	NASA-CASE-LAR-12177-1	US-PATENT-4.259.825
				US-PATENT-CLASS-375-99			US-PATENT-APPL-SN-027558	NASA-CASE-NPO-14588-1
				US-PATENT-4.241.312			US-PATENT-CLASS-356-28.5	US-PATENT-APPL-SN-008209
N81-19455*	c 37			NASA-CASE-LEW-12982-1			US-PATENT-CLASS-356-356	US-PATENT-CLASS-343-755
				US-PATENT-APPL-SN-929084			US-PATENT-CLASS-356-358	US-PATENT-CLASS-343-772
				US-PATENT-CLASS-204-192E			US-PATENT-4.255.048	US-PATENT-CLASS-343-781R
				US-PATENT-CLASS-228-116	N81-24442*	c 37	NASA-CASE-LEW-12991-1	US-PATENT-CLASS-343-786
				US-PATENT-CLASS-228-205			US-PATENT-APPL-SN-961832	US-PATENT-4.258.366
				US-PATENT-4.245.768			US-PATENT-CLASS-277-96	NASA-CASE-GSC-12399-1
N81-19558*	c 44			NASA-CASE-NPO-14670-1			US-PATENT-4.260.166	US-PATENT-APPL-SN-961831
				US-PATENT-APPL-SN-043941	N81-24443*	c 37	NASA-CASE-LAR-11695-2	US-PATENT-CLASS-70-58
				US-PATENT-CLASS-136-258			US-PATENT-APPL-SN-103836	US-PATENT-4.252.007
				US-PATENT-CLASS-252-62.3E			US-PATENT-APPL-SN-893865	NASA-CASE-NPO-14221-1
				US-PATENT-CLASS-357-30			US-PATENT-CLASS-152-330RF	US-PATENT-APPL-SN-907431
				US-PATENT-CLASS-357-59			US-PATENT-CLASS-152-353G	US-PATENT-CLASS-60-517
				US-PATENT-CLASS-357-63			US-PATENT-CLASS-152-353R	US-PATENT-CLASS-60-525
				US-PATENT-4.249.957			US-PATENT-CLASS-152-379.4	US-PATENT-4.255.929
N81-19896*	c 74			NASA-CASE-NPO-11337-1			US-PATENT-CLASS-244-103R	NASA-CASE-NPO-13823-1
				NASA-CASE-NPO-11575-1			US-PATENT-CLASS-244-130	US-PATENT-APPL-SN-658487
				US-PATENT-APPL-SN-090584			US-PATENT-4.267.992	US-PATENT-CLASS-106-43
				US-PATENT-APPL-SN-276599	N81-24519*	c 44	NASA-CASE-LEW-12441-3	US-PATENT-CLASS-264-332
				US-PATENT-CLASS-340-146.3H			US-PATENT-APPL-SN-032307	US-PATENT-4.252.768
				US-PATENT-CLASS-340-146.3S			US-PATENT-APPL-SN-856462	NASA-CASE-NPO-14363-1
				US-PATENT-CLASS-340-146.3Y			US-PATENT-CLASS-239-127.1	US-PATENT-APPL-SN-969760
				US-PATENT-3.845.466			US-PATENT-CLASS-60-204	US-PATENT-CLASS-356-213
N81-19898*	c 74			NASA-CASE-NPO-12087-1			US-PATENT-CLASS-60-267	US-PATENT-CLASS-356-216
				US-PATENT-APPL-SN-095217			US-PATENT-4.199.937	US-PATENT-CLASS-356-234
				US-PATENT-CLASS-250-83.6R			US-PATENT-4.245.469	US-PATENT-CLASS-356-32
				US-PATENT-3.704.284	N81-24520*	c 44	NASA-CASE-MFS-23999-1	US-PATENT-4.252.440
N81-20352* #	c 33			NASA-CASE-NPO-13970-1			US-PATENT-APPL-SN-060435	NASA-CASE-MFS-23717-1
				US-PATENT-APPL-SN-023484			US-PATENT-CLASS-250-203R	US-PATENT-APPL-SN-950877
				US-PATENT-CLASS-318-138			US-PATENT-CLASS-250-209	US-PATENT-CLASS-128-DIG.25
				US-PATENT-CLASS-318-254			US-PATENT-4.262.195	US-PATENT-CLASS-128-1R
				US-PATENT-CLASS-318-439	N81-24521*	c 44	NASA-CASE-LEW-12918-1	US-PATENT-CLASS-128-346
				US-PATENT-4.249.116			US-PATENT-APPL-SN-134855	US-PATENT-CLASS-137-493
N81-20703*	c 52			NASA-CASE-NPO-14329-1			US-PATENT-CLASS-429-120	US-PATENT-4.256.093
				US-PATENT-APPL-SN-044432			US-PATENT-CLASS-429-160	NASA-CASE-GSC-12082-2
				US-PATENT-CLASS-128-642			US-PATENT-CLASS-429-164	US-PATENT-APPL-SN-676958
				US-PATENT-CLASS-128-774			US-PATENT-CLASS-429-94	US-PATENT-APPL-SN-798976
				US-PATENT-CLASS-73-141A			US-PATENT-4.262.064	US-PATENT-CLASS-128-80F
				US-PATENT-4.249.417	N81-24711*	c 52	NASA-CASE-MS-16433-1	US-PATENT-4.252.111
N81-21047*	c 04			NASA-CASE-ARC-11257-1			US-PATENT-APPL-SN-910992	NASA-CASE-ARC-11167-1
				US-PATENT-APPL-SN-078611			US-PATENT-CLASS-128-295	US-PATENT-APPL-SN-057526
				US-PATENT-CLASS-73-178R			US-PATENT-CLASS-128-761	US-PATENT-CLASS-128-89R
				US-PATENT-CLASS-73-490			US-PATENT-CLASS-4-144.3	US-PATENT-4.261.349
				US-PATENT-CLASS-73-504			US-PATENT-4.246.901	NASA-CASE-KSC-11042-2
				US-PATENT-4.244.215	N81-24724*	c 54	NASA-CASE-KSC-11085-1	US-PATENT-APPL-SN-154663
N81-22280* #	c 33			NASA-CASE-MFS-24368-3			US-PATENT-APPL-SN-046739	NASA-CASE-LAR-12406-1
				US-PATENT-APPL-SN-243683			US-PATENT-CLASS-261-79A	US-PATENT-APPL-SN-008210
N81-22344* #	c 36			NASA-CASE-GSC-12609-1			US-PATENT-CLASS-422-109	US-PATENT-CLASS-165-104.14
				US-PATENT-APPL-SN-218586			US-PATENT-CLASS-422-27	US-PATENT-CLASS-244-117A

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		US-PATENT-APPL-SN-145273				US-PATENT-CLASS-528-351			US-PATENT-CLASS-250-235
		US-PATENT-CLASS-119-17				US-PATENT-CLASS-528-353			US-PATENT-CLASS-250-236
		US-PATENT-CLASS-119-18				US-PATENT-4,284,461			US-PATENT-CLASS-358-109
		US-PATENT-4,284,034	N82-11336*	c 32	.....	NASA-CASE-MSC-18606-1	N82-15381*	c 35	.....
N81-33235*	c 24	.....				US-PATENT-APPL-SN-145206			NASA-CASE-NPO-14839-1
		US-PATENT-APPL-SN-119337				US-PATENT-CLASS-343-700MS			US-PATENT-APPL-SN-106119
		US-PATENT-APPL-SN-889671				US-PATENT-CLASS-343-708			US-PATENT-CLASS-343-100PE
		US-PATENT-CLASS-156-242				US-PATENT-CLASS-343-727			US-PATENT-CLASS-455-137
		US-PATENT-CLASS-156-245				US-PATENT-CLASS-343-795			US-PATENT-CLASS-455-139
		US-PATENT-CLASS-156-252				US-PATENT-CLASS-343-846			US-PATENT-CLASS-455-60
		US-PATENT-CLASS-156-264				US-PATENT-4,287,518			US-PATENT-4,295,140
		US-PATENT-CLASS-156-285	N82-11357*	c 33	.....	NASA-CASE-MSC-18106-1	N82-16059*	c 04	.....
		US-PATENT-CLASS-156-290				US-PATENT-APPL-SN-098568			NASA-CASE-ARC-10990
		US-PATENT-4,229,473				US-PATENT-CLASS-335-256			US-PATENT-APPL-SN-749420
		US-PATENT-4,274,901				US-PATENT-CLASS-335-266			US-PATENT-CLASS-244-114R
N81-33246*	c 25	.....				US-PATENT-CLASS-361-141			US-PATENT-CLASS-340-26
		NASA-CASE-NPO-14272-1				US-PATENT-4,295,111			US-PATENT-4,291,294
		US-PATENT-APPL-SN-878253	N82-11360* #	c 33	.....	NASA-CASE-MFS-25586-1	N82-16075*	c 06	.....
		US-PATENT-CLASS-201-17				US-PATENT-APPL-SN-310714			NASA-CASE-FRC-11005-1
		US-PATENT-CLASS-44-1R				US-PATENT-APPL-SN-202228			US-PATENT-APPL-SN-043942
		US-PATENT-CLASS-44-2	N82-11399* #	c 34	.....	NASA-CASE-LEW-12950-1			US-PATENT-CLASS-340-27NA
		US-PATENT-4,146,367				US-PATENT-APPL-SN-070366			US-PATENT-CLASS-73-178R
N81-33319*	c 31	.....	N82-11431*	c 35	.....	NASA-CASE-LAR-12552-1	N82-16174*	c 23	.....
		NASA-CASE-NPO-14596-1				US-PATENT-APPL-SN-235-92PC			NASA-CASE-ARC-11244-1
		US-PATENT-CLASS-264-24				US-PATENT-CLASS-324-71CP			US-PATENT-APPL-SN-054501
		US-PATENT-CLASS-264-5				US-PATENT-4,286,209			US-PATENT-CLASS-260-340.9R
		US-PATENT-CLASS-264-9				NASA-CASE-MFS-23250-1			US-PATENT-CLASS-568-445
		US-PATENT-CLASS-425-6	N82-11432*	c 35	.....	US-PATENT-APPL-SN-119340	N82-16238*	c 27	.....
		US-PATENT-CLASS-65-142				US-PATENT-CLASS-422-40			NASA-CASE-MSC-18382-1
		US-PATENT-CLASS-65-21.4				US-PATENT-CLASS-430-17			US-PATENT-APPL-SN-145107
		US-PATENT-CLASS-65-22				US-PATENT-CLASS-430-372			US-PATENT-CLASS-106-18.16
		US-PATENT-4,279,632				US-PATENT-4,287,152			US-PATENT-CLASS-106-18.24
N81-33403*	c 33	.....	N82-11469* #	c 37	.....	NASA-CASE-NPO-15539-1			US-PATENT-CLASS-260-45.7R
		NASA-CASE-GSC-12324-1				US-PATENT-APPL-SN-303670			US-PATENT-CLASS-427-393.3
		US-PATENT-APPL-SN-954043				US-PATENT-CLASS-13877-1			US-PATENT-CLASS-428-263
		US-PATENT-CLASS-358-109	N82-11634*	c 45	.....	US-PATENT-APPL-SN-652979			US-PATENT-CLASS-428-264
		US-PATENT-CLASS-358-213				US-PATENT-CLASS-210-40			US-PATENT-CLASS-428-265
		US-PATENT-4,280,141				US-PATENT-CLASS-252-422			US-PATENT-CLASS-428-267
N81-33404*	c 33	.....				US-PATENT-4,209,393			US-PATENT-CLASS-428-272
		NASA-CASE-NPO-14316-1				NASA-CASE-MSC-14836-1	N82-16340*	c 33	.....
		US-PATENT-APPL-SN-051276				US-PATENT-APPL-SN-691647			NASA-CASE-GSC-12420-1
		US-PATENT-CLASS-363-24				US-PATENT-CLASS-128-327			US-PATENT-APPL-SN-129793
		US-PATENT-CLASS-363-56	N82-11770*	c 52	.....	US-PATENT-CLASS-128-686			US-PATENT-CLASS-333-104
		US-PATENT-4,276,588				US-PATENT-CLASS-128-691			US-PATENT-CLASS-333-246
N81-33405*	c 33	.....				US-PATENT-4,294,261			US-PATENT-4,302,734
		NASA-CASE-NPO-14435-1	N82-12166*	c 25	.....	NASA-CASE-MSC-16497-1	N82-16396*	c 36	.....
		US-PATENT-APPL-SN-017886				US-PATENT-APPL-SN-041145			NASA-CASE-GSC-12321-1
		US-PATENT-CLASS-329-122				US-PATENT-CLASS-204-1T			US-PATENT-APPL-SN-102001
		US-PATENT-CLASS-331-DIG.2				US-PATENT-CLASS-204-195S			US-PATENT-CLASS-356-349
		US-PATENT-CLASS-364-514				US-PATENT-CLASS-204-263			US-PATENT-CLASS-356-386
		US-PATENT-CLASS-375-1				US-PATENT-CLASS-204-264			US-PATENT-4,298,492
		US-PATENT-4,279,018	N81-33448*	c 35	.....	US-PATENT-CLASS-204-266	N82-16408*	c 37	.....
		NASA-CASE-NPO-14258-1				US-PATENT-CLASS-204-275			NASA-CASE-MSC-18422-1
		US-PATENT-APPL-SN-853349				US-PATENT-CLASS-204-276			US-PATENT-APPL-SN-102593
		US-PATENT-APPL-SN-972252				US-PATENT-CLASS-204-278			US-PATENT-CLASS-244-113
		US-PATENT-CLASS-350-370				US-PATENT-CLASS-23-230PC			US-PATENT-CLASS-244-163
		US-PATENT-CLASS-356-350				US-PATENT-CLASS-23-232E			US-PATENT-CLASS-244-217
		US-PATENT-CLASS-356-351				US-PATENT-CLASS-422-80			US-PATENT-CLASS-244-217
		US-PATENT-4,280,766				US-PATENT-4,293,522			US-PATENT-CLASS-277-189
N81-33482*	c 37	.....				NASA-CASE-NPO-14054-1			US-PATENT-CLASS-277-81R
		NASA-CASE-NPO-15227-1	N82-12297*	c 32	.....	US-PATENT-APPL-SN-969761	N82-16474*	c 44	.....
		US-PATENT-APPL-SN-163840				US-PATENT-CLASS-343-5CM			NASA-CASE-MFS-23775-1
		US-PATENT-CLASS-118-50				US-PATENT-4,292,634			US-PATENT-APPL-SN-098569
		US-PATENT-CLASS-118-52				NASA-CASE-MFS-25363-1			US-PATENT-CLASS-73-341
		US-PATENT-CLASS-269-21	N82-12441*	c 37	.....	US-PATENT-APPL-SN-171933	N82-16475*	c 44	.....
		US-PATENT-CLASS-427-240				US-PATENT-CLASS-118-423			NASA-CASE-NPO-15071-1
		US-PATENT-4,280,689				US-PATENT-CLASS-118-500			US-PATENT-APPL-SN-150115
N81-33483*	c 37	.....				US-PATENT-CLASS-134-137			US-PATENT-CLASS-126-438
		NASA-CASE-FRC-11044-1				US-PATENT-4,286,542			US-PATENT-CLASS-250-527
		US-PATENT-APPL-SN-135056				NASA-CASE-LEW-12989-1			US-PATENT-CLASS-48-89
		US-PATENT-CLASS-318-663	N82-12442*	c 37	.....	US-PATENT-APPL-SN-092145			US-PATENT-CLASS-48-99
		US-PATENT-CLASS-74-89				US-PATENT-CLASS-277-27	N82-16747*	c 60	.....
		US-PATENT-CLASS-92-130R				US-PATENT-CLASS-277-40			NASA-CASE-GSC-12430-1
		US-PATENT-4,274,038				US-PATENT-CLASS-277-93R			US-PATENT-APPL-SN-129779
N82-11088*	c 09	.....				US-PATENT-4,291,887			US-PATENT-CLASS-370-100
		NASA-CASE-LAR-12532-1				NASA-CASE-NPO-14544-1			US-PATENT-CLASS-375-106
		US-PATENT-APPL-SN-135040				US-PATENT-APPL-SN-078612			US-PATENT-CLASS-375-114
		US-PATENT-CLASS-73-147	N82-12685*	c 46	.....	US-PATENT-CLASS-343-100ME			US-PATENT-CLASS-375-116
		US-PATENT-4,286,460				US-PATENT-CLASS-343-100PE			US-PATENT-4,298,987
N82-11144*	c 25	.....				US-PATENT-CLASS-343-781P	N82-16800*	c 71	.....
		NASA-CASE-NPO-14273-1				US-PATENT-4,282,525			NASA-CASE-FRC-11062-1
		US-PATENT-APPL-SN-969759	N82-13376*	c 34	.....	NASA-CASE-MFS-25139-1			US-PATENT-APPL-SN-185869
		US-PATENT-CLASS-110-234				US-PATENT-APPL-SN-126138			US-PATENT-CLASS-181-214
		US-PATENT-CLASS-110-245				US-PATENT-CLASS-239-499	N82-18314*	c 20	.....
		US-PATENT-CLASS-110-255				US-PATENT-CLASS-239-589			NASA-CASE-GSC-12194-2
		US-PATENT-CLASS-110-266				US-PATENT-CLASS-239-601			US-PATENT-APPL-SN-819029
N82-11206*	c 27	.....				US-PATENT-4,300,723			US-PATENT-APPL-SN-971474
		NASA-CASE-LAR-12640-1				NASA-CASE-LAR-12592-1			US-PATENT-CLASS-60-200R
		US-PATENT-APPL-SN-092142	N82-13415*	c 36	.....	US-PATENT-APPL-SN-041141			US-PATENT-CLASS-60-39.46M
		US-PATENT-CLASS-156.307.7				US-PATENT-CLASS-331-94.5C	N82-18389*	c 27	.....
		US-PATENT-CLASS-156.307.3				US-PATENT-CLASS-331-94.5D			NASA-CASE-ARC-11176-1
		US-PATENT-CLASS-156.307.5				US-PATENT-CLASS-331-94.5F			US-PATENT-APPL-SN-129799
		US-PATENT-CLASS-156-331.5				US-PATENT-4,300,106			US-PATENT-CLASS-528-168
		US-PATENT-CLASS-528-126	N82-13465*	c 43	.....	NASA-CASE-GSC-12032-2			US-PATENT-CLASS-528-399
		US-PATENT-CLASS-528-172				US-PATENT-APPL-SN-578700			US-PATENT-CLASS-528-4
		US-PATENT-CLASS-528-173				US-PATENT-APPL-SN-583219			US-PATENT-CLASS-528-6
		US-PATENT-CLASS-528-207							US-PATENT-CLASS-528-7
		US-PATENT-CLASS-528-208							US-PATENT-CLASS-568-2
		US-PATENT-CLASS-528-210							US-PATENT-CLASS-568-4
		US-PATENT-CLASS-528-211							
		US-PATENT-CLASS-528-225							
		US-PATENT-CLASS-528-228							

		US-PATENT-CLASS-568-5			US-PATENT-CLASS-244-190			US-PATENT-CLASS-428-466
		US-PATENT-4,288,585			US-PATENT-CLASS-318-580			US-PATENT-CLASS-428-493
N82-18401*	c 28	NASA-CASE-ARC-11245-1	N82-23254*	c 09	NASA-CASE-LAR-12441-1	N82-24415*	c 33	NASA-CASE-LEW-13282-1
		US-PATENT-APPL-SN-088663			US-PATENT-APPL-SN-145210			US-PATENT-APPL-SN-073579
		US-PATENT-CLASS-239-690			US-PATENT-CLASS-73-147			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-361-226			US-PATENT-4,327,581			US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-361-230	N82-23282*	c 25	NASA-CASE-NPO-14542-1	N82-24416*	c 33	US-PATENT-4,277,721
N82-18443*	c 32	NASA-CASE-NPO-14632-1			US-PATENT-APPL-SN-030831			NASA-CASE-LAR-12633-1
		US-PATENT-APPL-SN-092143			US-PATENT-CLASS-166-267			US-PATENT-APPL-SN-135039
		US-PATENT-CLASS-367-100			US-PATENT-CLASS-166-303			US-PATENT-CLASS-358-213
		US-PATENT-CLASS-367-102			US-PATENT-CLASS-208-241			US-PATENT-4,279,001
		US-PATENT-CLASS-367-88			US-PATENT-4,310,049	N82-24417*	c 33	NASA-CASE-FRC-11025-1
N82-18493*	c 33	US-PATENT-4,287,578	N82-23376*	c 32	NASA-CASE-NPO-14361-1			US-PATENT-APPL-SN-115536
		NASA-CASE-FRC-11041-1			US-PATENT-APPL-SN-053572			US-PATENT-CLASS-328-167
		US-PATENT-APPL-SN-126064			US-PATENT-CLASS-343-17.1PF			US-PATENT-CLASS-330-109
		US-PATENT-CLASS-318-561			US-PATENT-CLASS-343-5DP			US-PATENT-CLASS-330-290
		US-PATENT-CLASS-318-620			US-PATENT-CLASS-343-7.5			US-PATENT-CLASS-330-294
		US-PATENT-CLASS-318-621			US-PATENT-CLASS-356-5			US-PATENT-CLASS-330-306
		US-PATENT-CLASS-318-622			US-PATENT-CLASS-367-95			US-PATENT-CLASS-364-825
		US-PATENT-4,298,833			US-PATENT-4,320,397			US-PATENT-4,275,453
N82-18494*	c 33	NASA-CASE-FRC-11014-1	N82-24072*	c 74	NASA-CASE-NPO-14813-1	N82-24418*	c 33	NASA-CASE-NPO-14556-1
		US-PATENT-APPL-SN-053652			US-PATENT-APPL-SN-145282			US-PATENT-APPL-SN-023485
		US-PATENT-CLASS-331-113R			US-PATENT-CLASS-250-216			US-PATENT-CLASS-307-415
		US-PATENT-CLASS-363-132			US-PATENT-CLASS-250-235			US-PATENT-CLASS-328-67
		US-PATENT-CLASS-363-17			US-PATENT-4,320,290			US-PATENT-CLASS-331-94.5E
		US-PATENT-CLASS-363-61	N82-24205*	c 08	NASA-CASE-LAR-12412-1			US-PATENT-CLASS-331-94.5E
		US-PATENT-4,298,926			US-PATENT-APPL-SN-067595			US-PATENT-CLASS-333-20
N82-18601*	c 37	NASA-CASE-LAR-12372-1			US-PATENT-CLASS-244-213			US-PATENT-4,275,317
		US-PATENT-APPL-SN-108107			US-PATENT-CLASS-244-226	N82-24419*	c 33	NASA-CASE-GSC-12415-1
		US-PATENT-CLASS-188-371			US-PATENT-CLASS-244-78			US-PATENT-APPL-SN-043943
		US-PATENT-CLASS-244-110C			US-PATENT-CLASS-74-479			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-280-805			US-PATENT-CLASS-74-480R			US-PATENT-CLASS-62-383
		US-PATENT-CLASS-57-906			US-PATENT-4,272,046			US-PATENT-4,281,708
N82-18686*	c 44	US-PATENT-4,304,320	N82-24212*	c 09	NASA-CASE-ARC-11158-1	N82-24420*	c 33	NASA-CASE-ARC-11116-1
		NASA-CASE-MFS-25287-1			US-PATENT-APPL-SN-053566			US-PATENT-APPL-SN-069485
		US-PATENT-APPL-SN-098570			US-PATENT-CLASS-434-42			US-PATENT-CLASS-324-51
		US-PATENT-CLASS-126-422			US-PATENT-CLASS-434-43			US-PATENT-CLASS-324-52
		US-PATENT-CLASS-126-429			US-PATENT-4,313,726			US-PATENT-4,282,479
		US-PATENT-CLASS-126-430	N82-24272*	c 15	NASA-CASE-ARC-11256-1	N82-24421*	c 33	NASA-CASE-GSC-12518-1
		US-PATENT-4,304,219			US-PATENT-APPL-SN-032305			US-PATENT-APPL-SN-119336
N82-19029*	c 74	NASA-CASE-NPO-15036-1			US-PATENT-CLASS-102-504			US-PATENT-CLASS-310-12
		US-PATENT-APPL-SN-188160			US-PATENT-CLASS-242-128			US-PATENT-CLASS-318-135
		US-PATENT-CLASS-455-610			US-PATENT-4,271,761			US-PATENT-CLASS-335-229
		US-PATENT-CLASS-455-612	N82-24296*	c 24	NASA-CASE-FRC-11026-1			US-PATENT-CLASS-335-266
		US-PATENT-CLASS-455-615			US-PATENT-APPL-SN-043944			US-PATENT-4,315,197
		US-PATENT-CLASS-455-617			US-PATENT-CLASS-228-157	N82-24422*	c 33	NASA-CASE-GSC-12595-1
		US-PATENT-4,287,606			US-PATENT-CLASS-244-119			US-PATENT-APPL-SN-206506
N82-19540*	c 37	NASA-CASE-LEW-12131-3			US-PATENT-CLASS-244-123			US-PATENT-CLASS-336-120
		US-PATENT-APPL-SN-096255			US-PATENT-CLASS-428-593			US-PATENT-CLASS-336-83
		US-PATENT-APPL-SN-801290			US-PATENT-CLASS-428-594			US-PATENT-4,321,572
		US-PATENT-APPL-SN-931090			US-PATENT-CLASS-428-604	N82-24427* #	c 33	NASA-CASE-MSC-18407-1
		US-PATENT-CLASS-415-174			US-PATENT-4,292,375			US-PATENT-APPL-SN-293419
		US-PATENT-CLASS-415-196	N82-24312*	c 25	NASA-CASE-ARC-11097-1	N82-24470*	c 35	NASA-CASE-LAR-12321-1
		US-PATENT-4,135,851			US-PATENT-APPL-SN-891872			US-PATENT-APPL-SN-178195
		US-PATENT-4,207,024			US-PATENT-CLASS-260-386			US-PATENT-CLASS-29-613
		US-PATENT-4,295,786			US-PATENT-CLASS-260-389			US-PATENT-CLASS-338-25
N82-21268*	c 25	NASA-CASE-LEW-12358-2			US-PATENT-CLASS-528-402			US-PATENT-CLASS-338-275
		US-PATENT-APPL-SN-776146			US-PATENT-CLASS-570-123			US-PATENT-CLASS-338-28
		US-PATENT-APPL-SN-848428			US-PATENT-CLASS-570-129			US-PATENT-4,317,102
		US-PATENT-CLASS-264-216	N82-24338*	c 27	US-PATENT-4,307,024	N82-24471*	c 35	NASA-CASE-GSC-12354-1
		US-PATENT-CLASS-264-453			NASA-CASE-ARC-11253-2			US-PATENT-APPL-SN-128229
		US-PATENT-CLASS-264-53			US-PATENT-APPL-SN-028301			US-PATENT-CLASS-250-385
		US-PATENT-CLASS-427-115			US-PATENT-APPL-SN-145284			US-PATENT-CLASS-250-386
		US-PATENT-CLASS-427-244			US-PATENT-CLASS-528-310			US-PATENT-CLASS-250-389
		US-PATENT-CLASS-427-246			US-PATENT-CLASS-528-328			US-PATENT-CLASS-29-25.14
		US-PATENT-4,133,941			US-PATENT-CLASS-528-362			US-PATENT-CLASS-313-348
		US-PATENT-4,309,372			US-PATENT-CLASS-528-401			US-PATENT-CLASS-313-93
N82-21269*	c 25	NASA-CASE-XLA-08914-2			US-PATENT-CLASS-528-422			US-PATENT-4,325,001
		US-PATENT-APPL-SN-662181	N82-24339*	c 27	US-PATENT-4,273,918	N82-24490*	c 37	NASA-CASE-LAR-12315-1
		US-PATENT-APPL-SN-810576			NASA-CASE-ARC-11310-1			US-PATENT-APPL-SN-096257
		US-PATENT-CLASS-210-321.1			US-PATENT-APPL-SN-147700			US-PATENT-CLASS-220-378
		US-PATENT-CLASS-55-158			US-PATENT-CLASS-102-289			US-PATENT-CLASS-277-1
		US-PATENT-4,302,223			US-PATENT-CLASS-244-121			US-PATENT-CLASS-277-105
N82-21587*	c 37	NASA-CASE-NPO-14395-1			US-PATENT-CLASS-244-158A			US-PATENT-CLASS-277-2
		US-PATENT-APPL-SN-961833			US-PATENT-CLASS-244-160			US-PATENT-CLASS-277-204
		US-PATENT-CLASS-104-83			US-PATENT-CLASS-428-192			US-PATENT-CLASS-277-4
		US-PATENT-CLASS-105-1A			US-PATENT-CLASS-428-193			US-PATENT-CLASS-277-59
		US-PATENT-CLASS-105-171			US-PATENT-CLASS-428-241			US-PATENT-CLASS-277-72R
		US-PATENT-CLASS-105-180			US-PATENT-CLASS-428-242			US-PATENT-CLASS-285-37
		US-PATENT-CLASS-105-218R			US-PATENT-CLASS-428-245			US-PATENT-4,309,039
		US-PATENT-CLASS-248-425			US-PATENT-CLASS-428-251	N82-24491*	c 37	NASA-CASE-MSC-18430-1
		US-PATENT-4,301,740			US-PATENT-CLASS-428-257			US-PATENT-APPL-SN-113015
N82-22496* #	c 37	NASA-CASE-ARC-11325-1			US-PATENT-CLASS-428-260			US-PATENT-CLASS-156-84
		US-PATENT-APPL-SN-354126			US-PATENT-CLASS-428-266			US-PATENT-CLASS-156-85
N82-22875*	c 52	NASA-CASE-GSC-12081-2			US-PATENT-CLASS-428-447			US-PATENT-CLASS-156-86
		US-PATENT-APPL-SN-672209			US-PATENT-CLASS-428-448			US-PATENT-CLASS-264-230
		US-PATENT-APPL-SN-796258			US-PATENT-CLASS-428-49			US-PATENT-CLASS-264-342R
		US-PATENT-CLASS-128-1.2			US-PATENT-4,308,309			US-PATENT-4,269,640
		US-PATENT-CLASS-128-778	N82-24340*	c 27	NASA-CASE-MFS-25181-1	N82-24492*	c 37	NASA-CASE-ARC-11110-1
		US-PATENT-CLASS-33-143C			US-PATENT-APPL-SN-218585			US-PATENT-APPL-SN-945040
		US-PATENT-4,294,264			US-PATENT-CLASS-156-315			US-PATENT-CLASS-118-320
N82-23231*	c 04	NASA-CASE-FRC-11052-1			US-PATENT-CLASS-156-338			US-PATENT-CLASS-118-500
		US-PATENT-APPL-SN-129783			US-PATENT-CLASS-428-332			US-PATENT-CLASS-118-503
		US-PATENT-CLASS-244-168			US-PATENT-CLASS-428-339			US-PATENT-CLASS-118-505
		US-PATENT-CLASS-244-175			US-PATENT-CLASS-428-462			US-PATENT-CLASS-427-425

N82-24493*	c 37	US-PATENT-4,312,292	N82-26571*	c 33	US-PATENT-CLASS-340-347DD	N82-28442*	c 27	US-PATENT-APPL-SN-161254
		NASA-CASE-NPO-15115-1			US-PATENT-4,313,103			US-PATENT-CLASS-427-205
		US-PATENT-APPL-SN-154725			NASA-CASE-LAR-12595-1			US-PATENT-CLASS-427-253
		US-PATENT-CLASS-74-18.1			US-PATENT-APPL-SN-070774			US-PATENT-CLASS-427-405
		US-PATENT-CLASS-74-18.2			US-PATENT-CLASS-156-157			US-PATENT-CLASS-428-938
N82-24494*	c 37	US-PATENT-CLASS-92-37	N82-26572*	c 33	US-PATENT-CLASS-156-272	N82-28545*	c 33	US-PATENT-CLASS-428-941
		US-PATENT-4,311,057			US-PATENT-CLASS-156-379.7			US-PATENT-4,310,574
		NASA-CASE-MSC-18526-1			US-PATENT-CLASS-156-71			NASA-CASE-NPO-14845-1
		US-PATENT-APPL-SN-119335			US-PATENT-CLASS-219-10.41			US-PATENT-APPL-SN-219680
		US-PATENT-CLASS-285-159			US-PATENT-CLASS-219-10.53			US-PATENT-CLASS-264-5
N82-24639*	c 44	US-PATENT-CLASS-285-401	N82-26628*	c 35	US-PATENT-CLASS-219-545	N82-28604*	c 35	US-PATENT-CLASS-425-6
		US-PATENT-CLASS-285-89			US-PATENT-CLASS-428-247			US-PATENT-CLASS-65-142
		US-PATENT-CLASS-403-315			US-PATENT-4,313,777			US-PATENT-CLASS-65-21.4
		US-PATENT-4,320,911			NASA-CASE-LAR-12465-1			US-PATENT-CLASS-65-22
		US-PATENT-APPL-SN-129780			US-PATENT-APPL-SN-106136			US-PATENT-CLASS-65-221
N82-24640*	c 44	US-PATENT-APPL-SN-051275	N82-26673* #	c 37	US-PATENT-CLASS-361-283	N82-28616*	c 36	US-PATENT-4,313,745
		US-PATENT-CLASS-60-516			US-PATENT-CLASS-367-181			NASA-CASE-MFS-23776-1
		US-PATENT-CLASS-60-641.14			US-PATENT-CLASS-73-724			US-PATENT-APPL-SN-145277
		US-PATENT-4,326,381			US-PATENT-CLASS-30-102			US-PATENT-CLASS-250-214
		NASA-CASE-GSC-10019-1			US-PATENT-4,310,906			US-PATENT-CLASS-250-221
N82-24641*	c 44	US-PATENT-APPL-SN-680048	N82-26674* #	c 37	US-PATENT-4,319,133	N82-28780*	c 44	US-PATENT-4,319,133
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-171934			NASA-CASE-LAR-12709-1
		US-PATENT-3,498,841			US-PATENT-CLASS-352-171			US-PATENT-APPL-SN-235796
		NASA-CASE-GSC-10350-1			US-PATENT-CLASS-354-217			US-PATENT-CLASS-204-1958
		US-PATENT-APPL-SN-679980			US-PATENT-CLASS-354-289			US-PATENT-CLASS-435-291
N82-24642*	c 44	US-PATENT-CLASS-136-6	N82-26776*	c 44	US-PATENT-4,311,378	N82-29002*	c 54	US-PATENT-CLASS-435-34
		US-PATENT-3,498,840			US-PATENT-CLASS-354-289			US-PATENT-CLASS-435-39
		NASA-CASE-GSC-10017-1			US-PATENT-4,311,055			US-PATENT-4,335,206
		US-PATENT-APPL-SN-679996			NASA-CASE-NPO-15183-1			NASA-CASE-NPO-14782-1
		US-PATENT-CLASS-136-6			US-PATENT-APPL-SN-173519			US-PATENT-APPL-SN-119339
N82-24643*	c 44	US-PATENT-3,519,484	N82-26777*	c 44	US-PATENT-CLASS-62-148	N82-29013*	c 60	US-PATENT-CLASS-330-4.3
		NASA-CASE-GSC-10018-1			US-PATENT-CLASS-62-235.1			US-PATENT-CLASS-372-56
		US-PATENT-APPL-SN-679987			US-PATENT-CLASS-62-238.3			US-PATENT-CLASS-372-58
		US-PATENT-CLASS-136-6			US-PATENT-CLASS-62-239			US-PATENT-CLASS-372-82
		US-PATENT-3,519,483			US-PATENT-CLASS-62-244			US-PATENT-4,328,464
N82-24644*	c 44	US-PATENT-APPL-SN-658999	N82-26778*	c 44	US-PATENT-CLASS-62-476	N82-29330*	c 09	NASA-CASE-NPO-13689-4
		US-PATENT-CLASS-136-148			US-PATENT-4,307,575			US-PATENT-APPL-SN-225501
		US-PATENT-3,506,496			NASA-CASE-NPO-15179-1			US-PATENT-APPL-SN-597430
		NASA-CASE-KSC-11099-1			US-PATENT-APPL-SN-185867			US-PATENT-APPL-SN-683073
		US-PATENT-APPL-SN-043945			US-PATENT-CLASS-136-261			US-PATENT-APPL-SN-837513
N82-24645*	c 47	US-PATENT-CLASS-324-72	N82-26779*	c 05	US-PATENT-CLASS-136-290	N82-29358*	c 23	US-PATENT-APPL-SN-93714
		US-PATENT-CLASS-324-77R			US-PATENT-CLASS-148-1.5			US-PATENT-CLASS-148-175
		US-PATENT-4,272,720			US-PATENT-CLASS-219-121LN			US-PATENT-CLASS-29-572
		NASA-CASE-FRC-11042-1			US-PATENT-CLASS-357-30			US-PATENT-CLASS-427-74
		US-PATENT-APPL-SN-129778			US-PATENT-CLASS-357-63			US-PATENT-4,278,830
N82-24839*	c 60	US-PATENT-CLASS-254-131	N82-26987*	c 54	US-PATENT-4,311,870	N82-29002*	c 54	US-PATENT-4,321,099
		US-PATENT-CLASS-29-267			NASA-CASE-ARC-11314-1			NASA-CASE-XMS-03694-1
		US-PATENT-CLASS-29-764			US-PATENT-APPL-SN-168943			US-PATENT-APPL-SN-394280
		US-PATENT-4,307,510			US-PATENT-CLASS-73-862.08			US-PATENT-CLASS-165-46
		NASA-CASE-NPO-15494-1			US-PATENT-4,311,055			US-PATENT-3,295,594
N82-25484* #	c 35	US-PATENT-APPL-SN-325885	N82-27086* #	c 71	US-PATENT-4,311,055	N82-29330*	c 09	US-PATENT-APPL-SN-173518
		NASA-CASE-FRC-11007-2			NASA-CASE-NPO-15562-1			US-PATENT-CLASS-244-194
		US-PATENT-APPL-SN-043911			US-PATENT-APPL-SN-364097			US-PATENT-CLASS-318-564
		US-PATENT-CLASS-244-12.2			NASA-CASE-MSC-18532-1			US-PATENT-CLASS-371-68
		US-PATENT-CLASS-244-23C			US-PATENT-APPL-SN-172099			US-PATENT-4,327,437
N82-26277*	c 05	US-PATENT-CLASS-244-34A	N82-27558*	c 32	US-PATENT-CLASS-343-789	N82-29330*	c 09	US-PATENT-APPL-SN-154663
		US-PATENT-CLASS-244-93			US-PATENT-CLASS-343-895			US-PATENT-APPL-SN-862878
		US-PATENT-4,307,856			US-PATENT-4,315,266			US-PATENT-CLASS-53-429
		NASA-CASE-LEW-13199-1			US-PATENT-4,315,266			US-PATENT-CLASS-8-150
		US-PATENT-APPL-SN-025301			NASA-CASE-LAR-12175-1			US-PATENT-4,244,810
N82-26293*	c 07	US-PATENT-CLASS-244-110B	N82-28279*	c 05	US-PATENT-APPL-SN-079913	N82-29358*	c 23	US-PATENT-4,313,291
		US-PATENT-CLASS-60-226A			US-PATENT-CLASS-244-48			NASA-CASE-LAR-10423-1
		US-PATENT-4,278,220			US-PATENT-4,330,100			US-PATENT-APPL-SN-877445
		NASA-CASE-LAR-11688-1			NASA-CASE-ARC-11267-2			US-PATENT-CLASS-260-65
		US-PATENT-APPL-SN-878540			US-PATENT-APPL-SN-163838			US-PATENT-3,657,190
N82-26384*	c 24	US-PATENT-CLASS-244-119	N82-28353*	c 23	US-PATENT-CLASS-528-401	N82-29362*	c 24	NASA-CASE-MSC-18223-1
		US-PATENT-CLASS-244-123			US-PATENT-CLASS-528-422			US-PATENT-APPL-SN-219681
		US-PATENT-CLASS-244-132			US-PATENT-CLASS-547-131			US-PATENT-CLASS-128-280
		US-PATENT-CLASS-244-123			US-PATENT-CLASS-564-229			US-PATENT-CLASS-128-283
		US-PATENT-4,310,132			US-PATENT-4,316,035			US-PATENT-CLASS-128-284
N82-26387* #	c 24	NASA-CASE-MSC-18934-3	N82-28368*	c 25	NASA-CASE-NPO-15015-1	N82-29358*	c 23	US-PATENT-CLASS-128-285
		US-PATENT-APPL-SN-361711			US-PATENT-APPL-SN-145207			US-PATENT-CLASS-128-288
		US-PATENT-CLASS-318-254			US-PATENT-CLASS-203-12			US-PATENT-CLASS-128-291
		US-PATENT-CLASS-318-806			US-PATENT-CLASS-422-186			US-PATENT-CLASS-128-296
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-422-198			US-PATENT-CLASS-428-283
N82-26396*	c 25	US-PATENT-CLASS-318-830	N82-28368*	c 25	US-PATENT-CLASS-423-235	N82-29370*	c 25	US-PATENT-CLASS-428-284
		US-PATENT-4,313,077			US-PATENT-CLASS-423-539			US-PATENT-CLASS-428-286
		NASA-CASE-LAR-12705-1			US-PATENT-CLASS-423-540			US-PATENT-CLASS-428-287
		US-PATENT-APPL-SN-135058			US-PATENT-CLASS-423-542			US-PATENT-CLASS-428-288
		US-PATENT-CLASS-252-514			US-PATENT-CLASS-423-579			US-PATENT-CLASS-428-288
N82-26568*	c 33	US-PATENT-4,311,615	N82-28368*	c 25	US-PATENT-CLASS-423-648R	N82-29370*	c 25	US-PATENT-4,338,371
		NASA-CASE-LEW-12296-1			US-PATENT-4,314,984			NASA-CASE-XGS-05584-1
		US-PATENT-APPL-SN-122966			NASA-CASE-LEW-13120-1			NASA-CASE-XGS-07375-1
		US-PATENT-CLASS-315-3.5			US-PATENT-APPL-SN-218587			NASA-CASE-XGS-07397-1
		US-PATENT-CLASS-315-3.6			US-PATENT-CLASS-204-192E			US-PATENT-APPL-SN-446071
N82-26569*	c 33	US-PATENT-CLASS-330-43	N82-28440*	c 27	US-PATENT-CLASS-204-192EC	N82-29371*	c 25	US-PATENT-CLASS-106-197
		US-PATENT-CLASS-330-43			US-PATENT-CLASS-264-220			US-PATENT-3,442,674
		US-PATENT-4,315,194			US-PATENT-CLASS-264-220			NASA-CASE-NPO-14902-1
		NASA-CASE-MFS-23828-1			US-PATENT-CLASS-428-141			US-PATENT-APPL-SN-156790
		US-PATENT-APPL-SN-111436			US-PATENT-4,329,385			US-PATENT-CLASS-201-17
N82-26570*	c 33	US-PATENT-CLASS-318-806	N82-28441*	c 27	US-PATENT-CLASS-428-141	N82-29415*	c 26	US-PATENT-CLASS-44-1SR
		US-PATENT-CLASS-318-812			US-PATENT-CLASS-428-141			US-PATENT-4,325,707
		US-PATENT-CLASS-318-830			US-PATENT-CLASS-428-141			NASA-CASE-LEW-13169-1
		US-PATENT-4,313,077			US-PATENT-4,329,385			US-PATENT-APPL-SN-102003
		NASA-CASE-LAR-12659-1			NASA-CASE-LEW-13343-1			US-PATENT-CLASS-204-192C

N82-29451*	c 27	US-PATENT-4,336,117 NASA-CASE-HQN-10274-1 US-PATENT-APPL-SN-683465 US-PATENT-CLASS-106-52 US-PATENT-3,573,078	N82-29863*	c 52	NASA-CASE-GSC-12560-1 US-PATENT-APPL-SN-153246 US-PATENT-CLASS-128-421 US-PATENT-4,308,868	N82-32732*	c 37	NASA-CASE-LAR-12482-1 US-PATENT-APPL-SN-100611 US-PATENT-CLASS-403-217 US-PATENT-CLASS-403-317 US-PATENT-CLASS-403-331 US-PATENT-CLASS-403-340 US-PATENT-CLASS-52-81 US-PATENT-4,340,318
N82-29452*	c 27	NASA-CASE-HQN-10931-2 US-PATENT-APPL-SN-246295 US-PATENT-APPL-SN-874674 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,785,836	N82-30071*	c 74	NASA-CASE-MSC-18627-1 US-PATENT-APPL-SN-186881 US-PATENT-CLASS-250-226 US-PATENT-CLASS-250-231R US-PATENT-CLASS-374-162R US-PATENT-4,338,516	N82-32841*	c 44	NASA-CASE-LAR-12513-1 US-PATENT-APPL-SN-161256 US-PATENT-CLASS-250-330 US-PATENT-CLASS-250-370 US-PATENT-4,331,873
N82-29453*	c 27	NASA-CASE-LEW-13268-1 US-PATENT-APPL-SN-145209 US-PATENT-CLASS-415-174 US-PATENT-CLASS-427-34 US-PATENT-CLASS-427-423 US-PATENT-4,336,276	N82-30105*	c 76	NASA-CASE-NPO-14831-1 US-PATENT-APPL-SN-233269 US-PATENT-CLASS-156-602 US-PATENT-CLASS-156-608 US-PATENT-CLASS-422-246 US-PATENT-4,330,359	N82-33288*	c 85	NASA-CASE-FRC-11058-1 US-PATENT-APPL-SN-175453 US-PATENT-CLASS-105-2R US-PATENT-CLASS-244-53B US-PATENT-CLASS-296-1S US-PATENT-CLASS-296-24C US-PATENT-CLASS-296-91 US-PATENT-4,343,506
N82-29454*	c 27	NASA-CASE-HQN-10328-2 US-PATENT-APPL-SN-246294 US-PATENT-APPL-SN-874673 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-CLASS-106-54 US-PATENT-3,811,901	N82-30371*	c 26	NASA-CASE-LEW-13169-2 US-PATENT-APPL-SN-102003 US-PATENT-APPL-SN-191746 US-PATENT-CLASS-204-192C US-PATENT-CLASS-428-457 US-PATENT-CLASS-428-472 US-PATENT-4,341,843	N82-33520*	c 27	NASA-CASE-KSC-11097-1 US-PATENT-APPL-SN-172100 US-PATENT-CLASS-427-140 US-PATENT-CLASS-427-372.2 US-PATENT-CLASS-427-397.7 US-PATENT-4,330,572
N82-29455*	c 27	NASA-CASE-HQN-10595-1 US-PATENT-APPL-SN-259056 US-PATENT-APPL-SN-874675 US-PATENT-CLASS-106-50 US-PATENT-CLASS-106-52 US-PATENT-3,947,281	N82-31505*	c 26	NASA-CASE-LEW-13339-1 US-PATENT-APPL-SN-199769 US-PATENT-CLASS-148-428 US-PATENT-CLASS-420-445 US-PATENT-CLASS-420-551 US-PATENT-CLASS-420-588 US-PATENT-4,340,425	N82-33521*	c 27	NASA-CASE-LEW-13028-1 US-PATENT-APPL-SN-218588 US-PATENT-CLASS-204-192E US-PATENT-CLASS-204-192EC US-PATENT-CLASS-204-308B US-PATENT-CLASS-428-141 US-PATENT-4,344,996
N82-29456*	c 27	NASA-CASE-MSC-18741-1 US-PATENT-APPL-SN-217336 US-PATENT-CLASS-156-329 US-PATENT-CLASS-244-121 US-PATENT-CLASS-244-158A US-PATENT-CLASS-244-160 US-PATENT-CLASS-244-163 US-PATENT-CLASS-428-212 US-PATENT-CLASS-428-218 US-PATENT-CLASS-428-283 US-PATENT-CLASS-428-289 US-PATENT-CLASS-428-307.7 US-PATENT-CLASS-428-311.5 US-PATENT-CLASS-428-312.6 US-PATENT-CLASS-428-317.9 US-PATENT-CLASS-428-325 US-PATENT-CLASS-428-446 US-PATENT-CLASS-428-49 US-PATENT-4,338,368	N82-31583*	c 32	NASA-CASE-MSC-16462-1 US-PATENT-APPL-SN-900841 US-PATENT-CLASS-178-22.16 US-PATENT-CLASS-178-22.17 US-PATENT-CLASS-364-717 US-PATENT-CLASS-375-106 US-PATENT-4,341,925	N82-33523* #	c 27	NASA-CASE-ARC-14408-1 US-PATENT-APPL-SN-403371 US-PATENT-CLASS-MFS-15670-1 US-PATENT-APPL-SN-409679 US-PATENT-CLASS-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
N82-29538*	c 33	NASA-CASE-NPO-15066-1 US-PATENT-APPL-SN-191744 US-PATENT-CLASS-179-18GF US-PATENT-CLASS-340-825.89 US-PATENT-CLASS-370-67 US-PATENT-4,331,956	N82-31659*	c 35	NASA-CASE-LAR-12363-1 US-PATENT-APPL-SN-191748 US-PATENT-CLASS-250-332 US-PATENT-CLASS-250-370 US-PATENT-CLASS-29-576J US-PATENT-CLASS-29-576S US-PATENT-CLASS-29-620 US-PATENT-4,341,012	N82-33634* #	c 33	NASA-CASE-MFS-15670-1 US-PATENT-APPL-SN-409679 US-PATENT-CLASS-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
N82-29539*	c 33	NASA-CASE-NPO-14311-1 US-PATENT-APPL-SN-969762 US-PATENT-CLASS-328-166 US-PATENT-CLASS-455-202 US-PATENT-CLASS-455-208 US-PATENT-CLASS-455-234 US-PATENT-CLASS-455-306 US-PATENT-4,336,616	N82-31690* #	c 37	NASA-CASE-MSC-20304-1 US-PATENT-APPL-SN-393585 US-PATENT-CLASS-13400-1 US-PATENT-APPL-SN-219677 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918	N82-33996*	c 52	NASA-CASE-NPO-14549-2 US-PATENT-APPL-SN-149526 US-PATENT-APPL-SN-918705 US-PATENT-CLASS-128-422 US-PATENT-CLASS-128-784 US-PATENT-CLASS-128-804 US-PATENT-4,346,715
N82-29589*	c 36	NASA-CASE-NPO-15111-1 US-PATENT-APPL-SN-150040 US-PATENT-CLASS-350-358 US-PATENT-4,332,441	N82-31764*	c 44	NASA-CASE-LEW-13400-1 US-PATENT-APPL-SN-219677 US-PATENT-CLASS-136-249 US-PATENT-CLASS-357-30 US-PATENT-4,341,918	N83-10040*	c 06	NASA-CASE-NPO-15351-1 US-PATENT-APPL-SN-224231 US-PATENT-CLASS-343-100ME US-PATENT-CLASS-374-122 US-PATENT-CLASS-374-123 US-PATENT-CLASS-73-170R US-PATENT-CLASS-73-178R US-PATENT-4,346,595
N82-29708*	c 44	NASA-CASE-LEW-13171-1 US-PATENT-APPL-SN-238790 US-PATENT-CLASS-429-144 US-PATENT-CLASS-429-251 US-PATENT-CLASS-429-254 US-PATENT-4,331,746	N82-32366*	c 07	NASA-CASE-LEW-12938-1 US-PATENT-APPL-SN-060449 US-PATENT-CLASS-415-145 US-PATENT-CLASS-415-178 US-PATENT-CLASS-60-39.07 US-PATENT-CLASS-60-39.29 US-PATENT-CLASS-60-726 US-PATENT-4,329,114	N83-10117*	c 24	NASA-CASE-LEW-12919-1 US-PATENT-APPL-SN-264378 US-PATENT-CLASS-204-192E US-PATENT-CLASS-313-106 US-PATENT-CLASS-313-107 US-PATENT-CLASS-315-538 US-PATENT-4,349,424
N82-29709*	c 44	NASA-CASE-LEW-13401-1 US-PATENT-APPL-SN-219678 US-PATENT-CLASS-136-249 US-PATENT-CLASS-148-1.5 US-PATENT-CLASS-29-572 US-PATENT-CLASS-357-30 US-PATENT-4,335,503	N82-32373*	c 08	NASA-CASE-LAR-12468-1 US-PATENT-APPL-SN-135057 US-PATENT-CLASS-244-118.1 US-PATENT-CLASS-244-137R US-PATENT-CLASS-89-1.5G US-PATENT-4,343,447	N83-10126*	c 25	NASA-CASE-MFS-25426-1 US-PATENT-APPL-SN-254575 US-PATENT-CLASS-204-299R US-PATENT-4,349,429
N82-29710*	c 44	NASA-CASE-NPO-15269-1 US-PATENT-APPL-SN-220214 US-PATENT-CLASS-204-290F US-PATENT-CLASS-204-290R US-PATENT-CLASS-429-193 US-PATENT-CLASS-429-33 US-PATENT-CLASS-429-40 US-PATENT-4,331,742	N82-32417*	c 24	NASA-CASE-LAR-12620-1 US-PATENT-APPL-SN-072857 US-PATENT-CLASS-244-132 US-PATENT-CLASS-244-158A US-PATENT-CLASS-428-594 US-PATENT-CLASS-428-604 US-PATENT-CLASS-428-607 US-PATENT-CLASS-428-608 US-PATENT-4,344,591	N83-10170*	c 26	NASA-CASE-LEW-12941-1 US-PATENT-APPL-SN-210632 US-PATENT-CLASS-29-458 US-PATENT-CLASS-29-521 US-PATENT-CLASS-403-282 US-PATENT-4,349,954
N82-29862*	c 52	NASA-CASE-LAR-12471-1 US-PATENT-APPL-SN-178193 US-PATENT-CLASS-128-62A US-PATENT-CLASS-433-118 US-PATENT-CLASS-433-125 US-PATENT-CLASS-433-86 US-PATENT-4,331,422	N82-32659*	c 35	NASA-CASE-GSC-12587-1 US-PATENT-APPL-SN-173524 US-PATENT-CLASS-250-369 US-PATENT-4,345,153	N83-10345*	c 33	NASA-CASE-MFS-25208-1 US-PATENT-APPL-SN-280154 US-PATENT-CLASS-318-803 US-PATENT-CLASS-363-87 US-PATENT-4,351,022
			N82-32712*	c 36	NASA-CASE-LAR-12328-1 US-PATENT-APPL-SN-073477 US-PATENT-CLASS-350-453 US-PATENT-CLASS-356-28.5 US-PATENT-4,346,990	N83-10417*	c 36	NASA-CASE-NPO-15021-1 US-PATENT-APPL-SN-130496 US-PATENT-CLASS-372-56 US-PATENT-CLASS-372-59 US-PATENT-CLASS-372-60 US-PATENT-4,347,613
			N82-32730*	c 37	NASA-CASE-GSC-12584-1 US-PATENT-APPL-SN-182879 US-PATENT-CLASS-125-23R US-PATENT-CLASS-225-103 US-PATENT-4,343,287	N83-10494*	c 44	NASA-CASE-LEW-13131-1 US-PATENT-APPL-SN-246772 US-PATENT-CLASS-204-56R US-PATENT-4,350,574
			N82-32731*	c 37	NASA-CASE-MFS-23846-1 US-PATENT-APPL-SN-168944 US-PATENT-CLASS-294-116 US-PATENT-CLASS-414-222 US-PATENT-CLASS-414-226 US-PATENT-CLASS-414-739 US-PATENT-4,343,584	N83-10501*	c 44	NASA-CASE-NPO-14369-1 US-PATENT-APPL-SN-126063 US-PATENT-CLASS-422-200 US-PATENT-CLASS-422-202 US-PATENT-CLASS-422-224 US-PATENT-CLASS-55-204 US-PATENT-4,343,772
						N83-10900*	c 74	NASA-CASE-GSC-12608-1 US-PATENT-APPL-SN-195228 US-PATENT-CLASS-350-170 US-PATENT-CLASS-350-286

N83-13171*	c 24	US-PATENT-4,350,410	N83-18975*	c 32	US-PATENT-CLASS-428-920	N83-20996*	c 18	US-PATENT-CLASS-343-DIG2
		NASA-CASE-MSC-18737-1			US-PATENT-4,373,003			US-PATENT-4,377,266
		US-PATENT-APPL-SN-266256			NASA-CASE-NPO-14998-1			NASA-CASE-LEW-13269-1
		US-PATENT-CLASS-427-379			US-PATENT-APPL-SN-195547			US-PATENT-APPL-SN-242795
		US-PATENT-CLASS-427-384			US-PATENT-CLASS-250-203R			US-PATENT-CLASS-415-174
N83-13172*	c 24	US-PATENT-CLASS-427-387	N83-18996*	c 33	US-PATENT-CLASS-343-100CL	N83-21311*	c 35	US-PATENT-CLASS-415-197
		US-PATENT-CLASS-428-218			US-PATENT-CLASS-343-5CM			US-PATENT-4,377,371
		US-PATENT-4,358,486			US-PATENT-CLASS-364-822			NASA-CASE-LAR-12469-1
		NASA-CASE-MSC-18736-1			US-PATENT-CLASS-364-861			US-PATENT-APPL-SN-195223
		US-PATENT-APPL-SN-266254			US-PATENT-4,371,946			US-PATENT-CLASS-250-338
N83-13187*	c 25	US-PATENT-CLASS-244-158A	N83-19015*	c 34	US-PATENT-CLASS-250-372	N83-21503*	c 44	US-PATENT-CLASS-250-474-1
		US-PATENT-CLASS-427-140			US-PATENT-APPL-SN-038550			US-PATENT-CLASS-356-51
		US-PATENT-CLASS-427-292			US-PATENT-APPL-SN-180230			US-PATENT-4,372,680
		US-PATENT-CLASS-427-302			US-PATENT-CLASS-250-311			NASA-CASE-MSC-18723-1
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-324-73R			US-PATENT-APPL-SN-234223
N83-13188*	c 25	US-PATENT-CLASS-427-384	N83-19091*	c 37	US-PATENT-CLASS-356-394	N83-21504*	c 44	US-PATENT-CLASS-73-818
		US-PATENT-CLASS-427-387			US-PATENT-4,358,732			US-PATENT-4,377,089
		US-PATENT-CLASS-428-63			NASA-CASE-MFS-25282-1			NASA-CASE-LAR-12458-1
		US-PATENT-4,358,480			US-PATENT-APPL-SN-263828			US-PATENT-APPL-SN-274705
		NASA-CASE-MFS-25306-1			US-PATENT-CLASS-378-2			US-PATENT-CLASS-73-147
N83-13323*	c 32	US-PATENT-APPL-SN-309293	N83-19596*	c 74	US-PATENT-CLASS-378-43	N83-21785*	c 52	US-PATENT-4,372,158
		US-PATENT-CLASS-204-280R			US-PATENT-4,370,750			NASA-CASE-LAR-12720-1
		US-PATENT-CLASS-204-299R			NASA-CASE-LAR-12361-1			US-PATENT-APPL-SN-274706
		US-PATENT-4,358,358			US-PATENT-APPL-SN-182880			US-PATENT-CLASS-73-147
		NASA-CASE-LEW-13504-1			US-PATENT-CLASS-411-353			US-PATENT-4,372,159
N83-13579*	c 44	US-PATENT-APPL-SN-272234	N83-19597*	c 74	US-PATENT-CLASS-411-517	N83-21949*	c 74	NASA-CASE-LEW-13107-1
		US-PATENT-CLASS-264-104			US-PATENT-4,371,301			US-PATENT-APPL-SN-272407
		US-PATENT-CLASS-429-206			NASA-CASE-LEW-12253-1			US-PATENT-CLASS-604-280
		US-PATENT-CLASS-429-253			US-PATENT-APPL-SN-243682			US-PATENT-CLASS-604-8
		US-PATENT-CLASS-525-61			US-PATENT-CLASS-165-104.26			US-PATENT-4,377,169
N83-13978*	c 74	US-PATENT-4,357,402	N83-19737*	c 05	US-PATENT-CLASS-165-134R	N83-24572* #	c 25	US-PATENT-4,377,169
		NASA-CASE-KSC-11025-1			US-PATENT-CLASS-29-157.3H			NASA-CASE-ARC-11354-1
		US-PATENT-APPL-SN-061327			US-PATENT-4,372,377			US-PATENT-APPL-SN-282192
		US-PATENT-CLASS-371-6			NASA-CASE-NPO-14864-1			US-PATENT-CLASS-356-357
		US-PATENT-4,358,846			US-PATENT-APPL-SN-061822			US-PATENT-CLASS-73-147
N83-14692*	c 44	NASA-CASE-LEW-13620-1	N83-19900*	c 27	US-PATENT-CLASS-250-227	N83-25217*	c 45	US-PATENT-4,377,343
		US-PATENT-APPL-SN-242796			US-PATENT-CLASS-250-332			NASA-CASE-NPO-16135-1
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-250-340			US-PATENT-APPL-SN-470114
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-250-350			NASA-CASE-LAR-12363-2
		US-PATENT-CLASS-29-572			US-PATENT-CLASS-250-351			US-PATENT-APPL-SN-377892
N83-14693*	c 44	US-PATENT-CLASS-357-30	N83-19947*	c 31	US-PATENT-CLASS-350-353	N83-25346*	c 52	US-PATENT-CLASS-250-388
		US-PATENT-CLASS-427-88			US-PATENT-4,262,198			US-PATENT-4,379,970
		US-PATENT-CLASS-427-89			NASA-CASE-FRC-11065-1			NASA-CASE-MFS-25509-1
		US-PATENT-CLASS-427-90			US-PATENT-APPL-SN-248744			US-PATENT-APPL-SN-297486
		US-PATENT-CLASS-427-91			US-PATENT-CASE-244-121			US-PATENT-CLASS-156-DIG.62
N83-16626*	c 33	US-PATENT-4,335,196	N83-19968*	c 32	US-PATENT-CASE-244-129.4	N83-25378*	c 60	US-PATENT-CLASS-34-57A
		NASA-CASE-ARC-11311-1			US-PATENT-CASE-292-254			US-PATENT-CLASS-432-227
		US-PATENT-APPL-SN-219640			US-PATENT-4,375,281			US-PATENT-CLASS-432-58
		US-PATENT-CLASS-350-287			NASA-CASE-NPO-14857-1			US-PATENT-4,378,209
		US-PATENT-CLASS-350-486			US-PATENT-APPL-SN-158530			NASA-CASE-NPO-15220-1
N83-16633* #	c 33	US-PATENT-4,355,870	N83-20154* #	c 37	US-PATENT-CLASS-523-205	N83-25789*	c 24	US-PATENT-APPL-SN-15202-1
		NASA-CASE-LEW-12892-1			US-PATENT-CLASS-523-205			US-PATENT-APPL-SN-246777
		US-PATENT-APPL-SN-264380			US-PATENT-CLASS-524-436			US-PATENT-CLASS-220-335
		US-PATENT-CLASS-136-255			US-PATENT-CLASS-524-437			US-PATENT-CLASS-73-863.31
		US-PATENT-CLASS-136-256			US-PATENT-CLASS-524-503			US-PATENT-CLASS-73-863.83
N83-17045*	c 51	US-PATENT-CLASS-136-259	N83-20280*	c 39	US-PATENT-CLASS-524-564	N83-26078*	c 37	US-PATENT-CLASS-73-864.63
		US-PATENT-CLASS-136-259			US-PATENT-CLASS-524-786			US-PATENT-4,377,949
		US-PATENT-4,360,701			US-PATENT-4,373,039			NASA-CASE-NPO-15197-1
		NASA-CASE-MSC-18794-1			NASA-CASE-NPO-15789-1			US-PATENT-APPL-SN-263957
		US-PATENT-APPL-SN-238785			US-PATENT-APPL-SN-322316			US-PATENT-CLASS-128-303B
N83-17235*	c 71	US-PATENT-CLASS-417-399	N83-20789*	c 76	US-PATENT-CLASS-204-129.55	N83-27058*	c 31	US-PATENT-CLASS-128-774
		US-PATENT-CLASS-74-110			US-PATENT-CLASS-204-129.75			US-PATENT-CLASS-128-782
		US-PATENT-4,360,325			US-PATENT-4,375,396			US-PATENT-4,378,813
		NASA-CASE-LAR-12772-1			NASA-CASE-NPO-14035-1			NASA-CASE-GSC-12223-1
		US-PATENT-APPL-SN-199767			US-PATENT-APPL-SN-858767			US-PATENT-APPL-SN-041143
N83-17305*	c 74	US-PATENT-CLASS-73-579	N83-20944*	c 07	US-PATENT-CLASS-343-100CL	N83-27126*	c 33	US-PATENT-CLASS-364-200
		US-PATENT-CLASS-73-597			US-PATENT-CLASS-343-5CM			US-PATENT-4,380,046
		US-PATENT-CLASS-73-629			US-PATENT-CLASS-343-9PS			NASA-CASE-ARC-11261-1
		US-PATENT-CLASS-73-761			US-PATENT-4,371,873			US-PATENT-APPL-SN-282129
		US-PATENT-4,363,242			NASA-CASE-MFS-25807			US-PATENT-CLASS-423-447.2
N83-17588* #	c 20	NASA-CASE-LAR-12847-1	N83-20944*	c 07	US-PATENT-APPL-SN-460733	N83-27144*	c 34	US-PATENT-CLASS-423-447.7
		US-PATENT-APPL-SN-393456			NASA-CASE-MSC-18929-1			US-PATENT-CLASS-423-447.7
		NASA-CASE-NPO-15213-1			US-PATENT-APPL-SN-198093			US-PATENT-CLASS-423-447.7
		US-PATENT-APPL-SN-280153			US-PATENT-CLASS-128-782			US-PATENT-4,385,043
		US-PATENT-CLASS-47-58			US-PATENT-CLASS-358-105			NASA-CASE-GSC-12643-1
N83-18908*	c 27	US-PATENT-CLASS-71-98	N83-20944*	c 07	US-PATENT-CLASS-364-413	N83-27144*	c 34	US-PATENT-APPL-SN-238786
		US-PATENT-4,363,188			US-PATENT-CLASS-364-522			US-PATENT-CLASS-417-15
		NASA-CASE-LAR-12883-1			US-PATENT-CLASS-364-559			US-PATENT-CLASS-47-26
		US-PATENT-APPL-SN-267935			US-PATENT-CLASS-73-379			US-PATENT-4,381,174
		US-PATENT-CLASS-73-147			US-PATENT-4,375,674			NASA-CASE-GSC-12636-1
N83-18908*	c 27	US-PATENT-4,363,237	N83-20944*	c 07	US-PATENT-CLASS-322-2R	N83-27144*	c 34	US-PATENT-APPL-SN-173520
		NASA-CASE-MFS-25312-1			US-PATENT-CLASS-339-3R			US-PATENT-CLASS-125-20
		US-PATENT-APPL-SN-187106			US-PATENT-CLASS-339-5R			US-PATENT-CLASS-408-1R
		US-PATENT-CLASS-350-171			US-PATENT-CLASS-148-173			US-PATENT-CLASS-408-61
		US-PATENT-4,362,361			US-PATENT-CLASS-148-175			US-PATENT-CLASS-409-131
N83-18908*	c 27	NASA-CASE-MFS-25843-1	N83-20944*	c 07	US-PATENT-CLASS-156-608	N83-27144*	c 34	US-PATENT-4,383,785
		US-PATENT-APPL-SN-444125			US-PATENT-CLASS-156-624			NASA-CASE-NPO-15401-1
		NASA-CASE-MSC-18832-1			US-PATENT-CLASS-156-635			US-PATENT-APPL-SN-259210
		US-PATENT-APPL-SN-365950			US-PATENT-CLASS-156-654			US-PATENT-CLASS-333-22F
		US-PATENT-CLASS-428-241			US-PATENT-CLASS-156-662			US-PATENT-CLASS-333-254
N83-18908*	c 27	US-PATENT-CLASS-428-244	N83-20944*	c 07	US-PATENT-4,373,989	N83-27126*	c 33	US-PATENT-4,382,239
		US-PATENT-CLASS-428-245			NASA-CASE-MFS-23981-1			NASA-CASE-NPO-15358-1
		US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-231543			US-PATENT-APPL-SN-219968
		US-PATENT-CLASS-428-331			US-PATENT-CLASS-244-159			US-PATENT-CLASS-323-269
		US-PATENT-CLASS-428-368			US-PATENT-CLASS-244-173			US-PATENT-CLASS-323-303
N83-18908*	c 27	US-PATENT-CLASS-428-902	N83-20944*	c 07	US-PATENT-CLASS-322-2R	N83-27144*	c 34	US-PATENT-CLASS-323-350
		US-PATENT-CLASS-428-913			US-PATENT-CLASS-339-3R			US-PATENT-4,382,224
		US-PATENT-4,362,361			US-PATENT-CLASS-339-5R			NASA-CASE-LEW-13174-1
		NASA-CASE-MFS-25843-1			US-PATENT-CLASS-148-173			
		US-PATENT-APPL-SN-444125			US-PATENT-CLASS-156-608			

		US-PATENT-APPL-SN-200634			US-PATENT-4,386,157			US-PATENT-CLASS-428-678
		US-PATENT-CLASS-415-115						US-PATENT-4,335,190
		US-PATENT-CLASS-416-1						NASA-CASE-MFS-25134-1
		US-PATENT-CLASS-416-97R						US-PATENT-APPL-SN-195226
N83-27184*	c 35	US-PATENT-4,384,823						US-PATENT-CLASS-24-214
		NASA-CASE-NPO-15292-1						US-PATENT-CLASS-244-159
		US-PATENT-APPL-SN-207135						US-PATENT-4,381,583
		US-PATENT-CLASS-250-282						NASA-CASE-NPO-14596-3
		US-PATENT-CLASS-250-288						US-PATENT-APPL-SN-303671
		US-PATENT-CLASS-250-423						US-PATENT-CLASS-264-5
		US-PATENT-4,383,171						US-PATENT-CLASS-264-9
N83-27344*	c 44	NASA-CASE-LEW-13246-1						US-PATENT-CLASS-425-6
		US-PATENT-APPL-SN-266255						US-PATENT-CLASS-65-142
		US-PATENT-CLASS-429-105						US-PATENT-CLASS-65-214
		US-PATENT-CLASS-429-107						US-PATENT-CLASS-65-22
		US-PATENT-CLASS-429-109						US-PATENT-4,344,787
		US-PATENT-CLASS-429-34						NASA-CASE-NPO-15251-1
		US-PATENT-CLASS-429-40						US-PATENT-APPL-SN-229239
		US-PATENT-4,382,116						US-PATENT-CLASS-337-14
N83-27569*	c 51	NASA-CASE-GSC-12158-1						US-PATENT-CLASS-62-48
		US-PATENT-APPL-SN-888434						US-PATENT-CLASS-62-514R
		US-PATENT-CLASS-422-52						US-PATENT-4,366,680
		US-PATENT-CLASS-435-289						NASA-CASE-NPO-14525-2
		US-PATENT-CLASS-435-291						US-PATENT-APPL-SN-165910
		US-PATENT-CLASS-435-3						US-PATENT-CLASS-343-5CM
		US-PATENT-CLASS-435-34						US-PATENT-CLASS-343-9PS
		US-PATENT-CLASS-435-38						US-PATENT-CLASS-367-88
		US-PATENT-CLASS-435-39						US-PATENT-4,355,311
		US-PATENT-CLASS-435-8						NASA-CASE-LEW-13429-3
		US-PATENT-4,385,113						US-PATENT-APPL-SN-220212
N83-27577*	c 52	NASA-CASE-MSC-18761-1						US-PATENT-CLASS-315-3
		US-PATENT-APPL-SN-254688						US-PATENT-CLASS-315-4
		US-PATENT-CLASS-128-DIG.13						US-PATENT-CLASS-315-5
		US-PATENT-CLASS-604-114						US-PATENT-CLASS-315-5.35
		US-PATENT-CLASS-604-151						US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-73-204						US-PATENT-4,395,656
		US-PATENT-4,384,578						NASA-CASE-MFS-25215-1
N83-27578*	c 52	NASA-CASE-MSC-18759-1						US-PATENT-APPL-SN-291131
		US-PATENT-APPL-SN-233270						US-PATENT-CLASS-318-800
		US-PATENT-CLASS-128-660						US-PATENT-CLASS-318-803
		US-PATENT-CLASS-128-663						US-PATENT-CLASS-318-809
		US-PATENT-CLASS-73-597						US-PATENT-4,394,610
		US-PATENT-4,383,533						NASA-CASE-NPO-14940-1
N83-27975*	c 05	NASA-CASE-FRC-11072-1						US-PATENT-APPL-SN-135038
		US-PATENT-APPL-SN-230613						US-PATENT-CLASS-324-466
		US-PATENT-CASE-179-146-R						US-PATENT-CLASS-73-861.05
		US-PATENT-CASE-179-179						US-PATENT-4,338,568
		US-PATENT-CASE-367-906						NASA-CASE-NPO-15400-1
		US-PATENT-4,388,502						US-PATENT-APPL-SN-246774
N83-28064*	c 18	NASA-CASE-GSC-12551-1						US-PATENT-CLASS-250-573
		US-PATENT-APPL-SN-182881						US-PATENT-CLASS-73-64.4
		US-PATENT-CLASS-244-169						US-PATENT-4,391,129
		US-PATENT-CLASS-244-170						NASA-CASE-LAR-12728-1
		US-PATENT-4,386,750						US-PATENT-APPL-SN-408575
N83-28240*	c 27	NASA-CASE-LAR-12775-1						US-PATENT-CLASS-248-636
		US-PATENT-APPL-SN-308201						US-PATENT-CLASS-248-638
		US-PATENT-CLASS-524-104						US-PATENT-CLASS-62-295
		US-PATENT-CLASS-524-173						US-PATENT-CLASS-62-514 R
		US-PATENT-CLASS-524-233						US-PATENT-4,394,819
		US-PATENT-CLASS-524-726						NASA-CASE-GSC-12517-1
		US-PATENT-CLASS-525-181						US-PATENT-APPL-SN-214361
		US-PATENT-CLASS-525-183						US-PATENT-CLASS-104-282
		US-PATENT-CLASS-525-184						US-PATENT-CLASS-104-290
		US-PATENT-CLASS-525-474						US-PATENT-CLASS-308-10
		US-PATENT-4,389,504						US-PATENT-CLASS-310-12
N83-28319*	c 33	NASA-CASE-MFS-25302-1						US-PATENT-4,387,935
		US-PATENT-APPL-SN-243683						NASA-CASE-LAR-12602-1
		US-PATENT-CLASS-322-29						US-PATENT-APPL-SN-210506
		US-PATENT-CLASS-322-35						US-PATENT-CLASS-374-51
		US-PATENT-CLASS-322-47						US-PATENT-CLASS-73-818
		US-PATENT-CLASS-322-95						US-PATENT-CLASS-73-822
		US-PATENT-4,388,585						US-PATENT-CLASS-73-856
N83-28356*	c 34	NASA-CASE-GSC-12553-1						US-PATENT-CLASS-73-860
		US-PATENT-APPL-SN-106192						US-PATENT-4,393,716
		US-PATENT-CLASS-165-185						NASA-CASE-LEW-12443-1
		US-PATENT-CLASS-165-32						US-PATENT-APPL-SN-235797
		US-PATENT-CLASS-165-76						US-PATENT-CLASS-310-306
		US-PATENT-4,388,965						US-PATENT-4,373,142
N83-28573*	c 44	NASA-CASE-LAR-12495-1						NASA-CASE-LEW-13171-2
		US-PATENT-APPL-SN-263830						US-PATENT-APPL-SN-333537
		US-PATENT-CLASS-310-11						US-PATENT-CLASS-29-623.5
		US-PATENT-4,388,542						US-PATENT-CLASS-429-144
N83-28574*	c 44	NASA-CASE-GSC-12697-1						US-PATENT-CLASS-429-251
		US-PATENT-APPL-SN-308204						US-PATENT-CLASS-429-254
		US-PATENT-CLASS-308-10						US-PATENT-4,371,596
		US-PATENT-CLASS-310-15						NASA-CASE-LEW-13401-2
		US-PATENT-CLASS-417-417						US-PATENT-APPL-SN-359388
		US-PATENT-CLASS-62-6						US-PATENT-CLASS-136-249
		US-PATENT-4,389,849						US-PATENT-CLASS-357-30
N83-28849*	c 51	NASA-CASE-ARC-11322-1						US-PATENT-4,376,872
		US-PATENT-APPL-SN-315278						NASA-CASE-NPO-14936-1
		US-PATENT-CLASS-435-3						US-PATENT-APPL-SN-163837
		US-PATENT-CLASS-435-34						US-PATENT-CLASS-250-203R
		US-PATENT-CLASS-435-38						US-PATENT-CLASS-356-222
		US-PATENT-CLASS-435-39						US-PATENT-4,355,896
		US-PATENT-CLASS-435-807						NASA-CASE-NPO-15342-1
N83-29032*	c 74	NASA-CASE-KSC-11104-1						
		US-PATENT-APPL-SN-153245						
		US-PATENT-CLASS-350-96.16						
		US-PATENT-CLASS-455-612						
		US-PATENT-4,381,881						
N83-29303*	c 18	NASA-CASE-MFS-25403-1						
		US-PATENT-APPL-SN-248745						
		US-PATENT-CLASS-244-115						
		US-PATENT-CLASS-244-161						
		US-PATENT-CLASS-269-152						
		US-PATENT-CLASS-269-242						
		US-PATENT-CLASS-269-244						
		US-PATENT-CLASS-294-86R						
		US-PATENT-4,391,423						
N83-29324*	c 25	NASA-CASE-GSC-12770-1						
		US-PATENT-APPL-SN-301075						
		US-PATENT-CLASS-423-648R						
		US-PATENT-CLASS-423-649						
		US-PATENT-4,393,039						
N83-29388*	c 27	NASA-CASE-LEW-13132-1						
		US-PATENT-APPL-SN-272152						
		US-PATENT-CLASS-204-35N						
		US-PATENT-CLASS-204-37R						
		US-PATENT-CLASS-204-56R						
		US-PATENT-4,392,920						
N83-29392* #	c 27	NASA-CASE-LEW-12876-2						
		US-PATENT-APPL-SN-393583						
N83-29625*	c 34	NASA-CASE-LEW-12508-3						
		US-PATENT-APPL-SN-235868						
		US-PATENT-CLASS-62-3						
		US-PATENT-4,392,356						
N83-29650*	c 35	NASA-CASE-MFS-25242-1						
		US-PATENT-APPL-SN-246773						
		US-PATENT-CLASS-374-17						
		US-PATENT-CLASS-73-863.11						
		US-PATENT-4,389,904						
N83-29651*	c 35	NASA-CASE-LAR-12531-1						
		US-PATENT-APPL-SN-282191						
		US-PATENT-CASE-368-10						
		US-PATENT-CASE-368-118						
		US-PATENT-CASE-368-119						
		US-PATENT-CASE-368-120						
		US-PATENT-CASE-368-6						
		US-PATENT-CASE-368-9						
		US-PATENT-4,392,749						
N83-29652*	c 35	NASA-CASE-MSC-18936-1						
		US-PATENT-APPL-SN-325082						
		US-PATENT-CLASS-55-194						
		US-PATENT-CLASS-55-202						
		US-PATENT-4,392,874						
N83-29680*	c 36	NASA-CASE-MFS-25315-1						
		US-PATENT-APPL-SN-224232						
		US-PATENT-CASE-356-129						
		US-PATENT-4,391,518						
N83-29681* #	c 36	NASA-CASE-GSC-12609-2						
		US-PATENT-APPL-SN-481020						
N83-29783* #	c 43	NASA-CASE-LAR-13053-1						
		US-PATENT-APPL-SN-508372						
N83-29991* #	c 52	NASA-CASE-ARC-11264-2						
		US-PATENT-APPL-SN-465370						
N83-31603*	c 07	NASA-CASE-LEW-14586-1						
		US-PATENT-APPL-SN-163122						
		US-PATENT-CLASS-415-1						
		US-PATENT-CLASS-415-175						
		US-PATENT-CLASS-415-178						
		US-PATENT-CLASS-415-178						
		US-PATENT-4,338,061						
N83-31743*	c 25	NASA-CASE-NPO-15304-1						
		US-PATENT-APPL-SN-315587						
		US-PATENT-CLASS-201-17						
		US-PATENT-CLASS-44-15R						
		US-PATENT-4,391,609						
N83-31795*	c 26	NASA-CASE-LEW-13343						
		US-PATENT-APPL-SN-293418						
		US-PATENT-CLASS-427-318						
		US-PATENT-CLASS-427-419.2						
		US-PATENT-CLASS-428-450						
		US-PATENT-CLASS-428-469						
		US-PATENT-CLASS-428-641						
		US-PATENT-CLASS-428-650						
		US-PATENT-CLASS-428-680						
		US-PATENT-4,374,183						
N83-31854*	c 27	NASA-CASE-ARC-11368-1						
		US-PATENT-APPL-SN-288267						
		US-PATENT-CLASS-548-413						
		US-PATENT-CLASS-548-415						
		US-PATENT-4,395,557						
N83-31855*	c 27	NASA-CASE-LEW-1335901						
		US-PATENT-APPL-SN-229233						
		US-PATENT-CLASS-427-219.2						
		US-PATENT-CLASS-427-34						
		US-PATENT-CLASS-427-405						
		US-PATENT-CLASS-427-423						
		US-PATENT-CLASS-428-623						

		US-PATENT-APPL-SN-258623				US-PATENT-APPL-SN-276748			US-PATENT-CLASS-318-806
		US-PATENT-CLASS-364-200				US-PATENT-CLASS-315-208			US-PATENT-4,401,934
		US-PATENT-CLASS-364-900				US-PATENT-CLASS-315-224			NASA-CASE-GSC-12812-1
		US-PATENT-4,394,726				US-PATENT-CLASS-315-225			US-PATENT-APPL-SN-434674
N83-32515*	c 71	NASA-CASE-NPO-15453-1				US-PATENT-CLASS-315-237			US-PATENT-CLASS-165-104-26
		US-PATENT-APPL-SN-314929				US-PATENT-CLASS-315-241R			US-PATENT-CLASS-165-32
		US-PATENT-CLASS-60-721				US-PATENT-CLASS-372-25			US-PATENT-4,402,358
		US-PATENT-CLASS-73-505				US-PATENT-4,398,129			NASA-CASE-LEW-13934-1
N83-32516*	c 71	US-PATENT-4,393,708	N83-34190*	c 33	NASA-CASE-MFS-25607-1				US-PATENT-APPL-SN-212949
		NASA-CASE-NPO-15522-1			US-PATENT-APPL-SN-325886				US-PATENT-CLASS-228-103
		US-PATENT-APPL-SN-303672			US-PATENT-CLASS-361-90				US-PATENT-CLASS-228-193
		US-PATENT-CLASS-60-721			US-PATENT-CLASS-318-729				US-PATENT-CLASS-228-263-18
		US-PATENT-CLASS-73-505			US-PATENT-CLASS-318-798				US-PATENT-CLASS-415-118
		US-PATENT-4,393,706			US-PATENT-CLASS-318-806				US-PATENT-4,402,447
N83-32577*	c 74	NASA-CASE-GSC-12614-1			US-PATENT-CLASS-361-100				NASA-CASE-NPO-15201-1
		US-PATENT-APPL-SN-195227			US-PATENT-CLASS-363-54				US-PATENT-APPL-SN-246778
		US-PATENT-CLASS-356-353			US-PATENT-4,400,657				US-PATENT-CLASS-330-4
		US-PATENT-CLASS-356-363	N83-34191*	c 33	NASA-CASE-GSC-12646-1				US-PATENT-CLASS-332-7.5
		US-PATENT-4,395,123			US-PATENT-APPL-SN-284290				US-PATENT-CLASS-333-24.2
N83-33882*	c 06	NASA-CASE-FRC-11043-1			US-PATENT-CLASS-330-289				US-PATENT-4,399,415
		US-PATENT-APPL-SN-242790			US-PATENT-CLASS-330-310				NASA-CASE-NPO-15334-1
		US-PATENT-CLASS-33-322			US-PATENT-4,401,953				US-PATENT-APPL-SN-341406
		US-PATENT-CLASS-74-5.34	N83-34221*	c 34	NASA-CASE-LAR-12393-1				US-PATENT-CLASS-210-748
		US-PATENT-4,387,513			US-PATENT-APPL-SN-145208				US-PATENT-CLASS-252-361
N83-33884*	c 07	NASA-CASE-ARC-10812-1			US-PATENT-CLASS-165-27				US-PATENT-CLASS-366-114
		US-PATENT-APPL-SN-657903			US-PATENT-CLASS-165-12				US-PATENT-CLASS-55-15
		US-PATENT-CLASS-181-213			US-PATENT-CLASS-165-61				US-PATENT-CLASS-55-277
		US-PATENT-CLASS-239-265.17			US-PATENT-CLASS-165-80E				US-PATENT-CLASS-55-38
		US-PATENT-CLASS-60-262			US-PATENT-CLASS-374-46				US-PATENT-CLASS-55-52
		US-PATENT-CLASS-60-269			US-PATENT-CLASS-62-514R				US-PATENT-CLASS-65-134
		US-PATENT-CLASS-60-271			US-PATENT-CLASS-62-62				US-PATENT-4,398,925
		US-PATENT-4,372,110			US-PATENT-4,346,754				NASA-CASE-NPO-15530-1
N83-33950*	c 24	NASA-CASE-NPO-14987-1	N83-34272*	c 35	NASA-CASE-ARC-11317-1				US-PATENT-APPL-SN-364092
		US-PATENT-APPL-SN-164-584			US-PATENT-APPL-SN-229231				US-PATENT-CLASS-156-DIG.6
		US-PATENT-CLASS-427-215			US-PATENT-CLASS-340-518				US-PATENT-CLASS-156-DIG.73
		US-PATENT-CLASS-427-241			US-PATENT-CLASS-340-566				US-PATENT-CLASS-156-608
		US-PATENT-CLASS-428-367			US-PATENT-4,374,378				US-PATENT-4,401,505
		US-PATENT-CLASS-428-375	N83-34304*	c 36	NASA-CASE-ARC-11312-1				NASA-CASE-LAR-12624-1
		US-PATENT-CLASS-428-392			US-PATENT-APPL-SN-234224				US-PATENT-APPL-SN-259209
		US-PATENT-CLASS-428-902			US-PATENT-CLASS-356-1				US-PATENT-CLASS-102-378
		US-PATENT-CLASS-428-903			US-PATENT-CLASS-356-4				US-PATENT-CLASS-244-137P
		US-PATENT-4,359,503			US-PATENT-CLASS-358-104				US-PATENT-CLASS-89-1B
N83-33977*	c 25	NASA-CASE-ARC-11326-1			US-PATENT-CLASS-358-109				US-PATENT-4,407,468
		US-PATENT-APPL-SN-178192			US-PATENT-CLASS-434-38				NASA-CASE-LEW-13142-1
		US-PATENT-CLASS-252-5			US-PATENT-CLASS-434-4				US-PATENT-APPL-SN-132364
		US-PATENT-CLASS-423-419P			US-PATENT-4,391,514				US-PATENT-CLASS-60-39.07
		US-PATENT-CLASS-423-600	N83-34323*	c 37	NASA-CASE-GSC-12726-1				US-PATENT-4,404,793
		US-PATENT-CLASS-424-156			US-PATENT-APPL-SN-364093				NASA-CASE-ARC-11252-1
		US-PATENT-4,356,157			US-PATENT-CLASS-308-10				US-PATENT-APPL-SN-317977
N83-34039*	c 27	NASA-CASE-GSC-12686-1	N83-34448*	c 44	US-PATENT-4,381,375				US-PATENT-CLASS-169-47
		US-PATENT-APPL-SN-293412			NASA-CASE-ARC-11164-1				US-PATENT-CLASS-252-2
		US-PATENT-CLASS-427-322			US-PATENT-APPL-SN-308007				US-PATENT-CLASS-252-5
		US-PATENT-CLASS-427-340			US-PATENT-CLASS-350-166				US-PATENT-4,406,797
		US-PATENT-CLASS-427-352			US-PATENT-CLASS-428-312.6				NASA-CASE-MFS-25436-1
		US-PATENT-CLASS-427-400			US-PATENT-CLASS-428-325				US-PATENT-APPL-SN-280151
		US-PATENT-CLASS-427-407.1			US-PATENT-CLASS-428-427				US-PATENT-CLASS-156-DIG.73
		US-PATENT-4,362,769			US-PATENT-CLASS-428-428				US-PATENT-CLASS-156-DIG.89
N83-34040*	c 27	NASA-CASE-LAR-12838-1			US-PATENT-4,381,333				US-PATENT-CLASS-156-600
		US-PATENT-APPL-SN-320621	N83-34449*	c 44	NASA-CASE-LAR-12719-1				US-PATENT-CLASS-156-610
		US-PATENT-CLASS-526-259			US-PATENT-APPL-SN-367134				US-PATENT-CLASS-165-2
		US-PATENT-CLASS-526-285			US-PATENT-CLASS-126-901				US-PATENT-CLASS-165-58
		US-PATENT-CLASS-528-12			US-PATENT-CLASS-204-33				US-PATENT-CLASS-219-343
		US-PATENT-CLASS-528-125			US-PATENT-CLASS-204-35N				US-PATENT-CLASS-219-354
		US-PATENT-CLASS-528-126			US-PATENT-4,397,716				US-PATENT-CLASS-219-390
		US-PATENT-CLASS-528-128	N83-34796*	c 76	NASA-CASE-LEW-12582-1				US-PATENT-CLASS-219-411
		US-PATENT-CLASS-528-220			US-PATENT-APPL-SN-397281				US-PATENT-CLASS-350-316
		US-PATENT-CLASS-528-222			US-PATENT-CLASS-310-332				US-PATENT-4,408,658
		US-PATENT-CLASS-528-228			US-PATENT-CLASS-310-800				NASA-CASE-GSC-12630-1
		US-PATENT-CLASS-528-229			US-PATENT-CLASS-428-294				US-PATENT-APPL-SN-308009
		US-PATENT-CLASS-528-38			US-PATENT-CLASS-428-421				US-PATENT-CLASS-343-100AP
		US-PATENT-4,375,536			US-PATENT-CLASS-428-422				US-PATENT-CLASS-343-840
N83-34041*	c 27	NASA-CASE-LAR-12858-1			US-PATENT-4,400,642				US-PATENT-4,407,001
		US-PATENT-APPL-SN-407240	N83-35176*	c 31	NASA-CASE-NPO-15070-1				NASA-CASE-KSC-11170-1
		US-PATENT-CLASS-164-331.12			US-PATENT-APPL-SN-403847				US-PATENT-APPL-SN-284288
		US-PATENT-CLASS-264-137			US-PATENT-CLASS-264-12				US-PATENT-CLASS-330-110
		US-PATENT-CLASS-264-258			US-PATENT-CLASS-264-24				US-PATENT-CLASS-330-282
		US-PATENT-CLASS-264-331.46			US-PATENT-CLASS-264-5				US-PATENT-4,406,989
		US-PATENT-CLASS-528-222			US-PATENT-CLASS-425-10				NASA-CASE-LAR-12654-1
		US-PATENT-CLASS-528-226			US-PATENT-CLASS-425-6				US-PATENT-APPL-SN-234225
		US-PATENT-4,398,021			US-PATENT-CLASS-425-7				US-PATENT-CLASS-368-184
N83-34043*	c 27	NASA-CASE-NPO-15202-1			US-PATENT-CLASS-65-142				US-PATENT-CLASS-368-200
		US-PATENT-APPL-SN-233271			US-PATENT-CLASS-65-21.3				US-PATENT-CLASS-368-201
		US-PATENT-CLASS-384-124			US-PATENT-CLASS-65-21.4				US-PATENT-4,407,589
		US-PATENT-CLASS-523-440			US-PATENT-CLASS-65-22				NASA-CASE-MS-18791-1
		US-PATENT-CLASS-523-443			US-PATENT-4,400,191				US-PATENT-APPL-SN-248746
		US-PATENT-4,395,503	N83-35177*	c 31	NASA-CASE-LEW-13450-1				US-PATENT-CLASS-29-446
N83-34073*	c 31	NASA-CASE-ARC-11246-1			US-PATENT-APPL-SN-328760				US-PATENT-CLASS-73-862.54
		US-PATENT-APPL-SN-136660			US-PATENT-CLASS-427-243				US-PATENT-CLASS-81-55
		US-PATENT-CLASS-156-264			US-PATENT-CLASS-427-247				US-PATENT-CLASS-81-57.38
		US-PATENT-CLASS-156-344			US-PATENT-CLASS-427-34				US-PATENT-4,407,165
		US-PATENT-CLASS-156-59			US-PATENT-CLASS-427-423				NASA-CASE-MS-18807-1
		US-PATENT-CLASS-273-240			US-PATENT-4,402,992				US-PATENT-APPL-SN-266688
		US-PATENT-CLASS-434-403	N83-35227*	c 33	NASA-CASE-MFS-25209-1				US-PATENT-CLASS-123-197R
		US-PATENT-CLASS-434-88			US-PATENT-APPL-SN-291132				US-PATENT-CLASS-123-78E
		US-PATENT-4,385,949			US-PATENT-CLASS-318-685				US-PATENT-4,406,256
N83-34189*	c 33	NASA-CASE-GSC-12566-1			US-PATENT-CLASS-318-798				NASA-CASE-NPO-15435-1

		US-PATENT-APPL-SN-272837		US-PATENT-APPL-SN-322314		US-PATENT-CLASS-339-258RR		
		US-PATENT-CLASS-308-10		US-PATENT-CLASS-156-215		US-PATENT-CLASS-339-262RR		
		US-PATENT-CLASS-73-505		US-PATENT-CLASS-156-230		US-PATENT-CLASS-339-64M		
		US-PATENT-4,402,221		US-PATENT-CLASS-156-235		US-PATENT-4,421,371		
N83-36898*	c 74	NASA-CASE-GSC-12683-1		US-PATENT-CLASS-156-294	N84-14424*	c 33	NASA-CASE-MFS-25477-1	
		US-PATENT-APPL-SN-333535		US-PATENT-CLASS-156-391			US-PATENT-APPL-SN-243683	
		US-PATENT-CLASS-350-173		US-PATENT-CLASS-156-423			US-PATENT-APPL-SN-297524	
		US-PATENT-CLASS-350-445		US-PATENT-CLASS-156-540			US-PATENT-APPL-SN-350472	
		US-PATENT-4,407,563		US-PATENT-CLASS-156-71			US-PATENT-CLASS-318-729	
N84-11136*	c 02	NASA-CASE-LAR-12843-1		US-PATENT-CLASS-338-2			US-PATENT-CLASS-318-798	
		US-PATENT-APPL-SN-392096		US-PATENT-4,407,686			US-PATENT-CLASS-318-806	
		US-PATENT-CLASS-244-35A	N84-12444*	c 35	NASA-CASE-LAR-12706-1	N84-14461*	c 34	US-PATENT-4,417,190
		US-PATENT-CLASS-244-35R			US-PATENT-APPL-SN-210498			NASA-CASE-GSC-12771-1
		US-PATENT-CLASS-416-223R			US-PATENT-CLASS-324-250			US-PATENT-APPL-SN-434672
		US-PATENT-CLASS-416-242			US-PATENT-CLASS-328-230			US-PATENT-CLASS-165-32
		US-PATENT-4,412,664			US-PATENT-CLASS-372-74			US-PATENT-CLASS-165-41
N84-11213*	c 24	NASA-CASE-ARC-11418-1			US-PATENT-4,414,509			US-PATENT-CLASS-165-96
		US-PATENT-APPL-SN-452464	N84-12445*	c 35	NASA-CASE-LAR-12882-1	N84-14491*	c 35	US-PATENT-4,420,035
		US-PATENT-CLASS-523-435			US-PATENT-APPL-SN-267179			NASA-CASE-LAR-12686-1
		US-PATENT-CLASS-523-456			US-PATENT-CLASS-364-415			US-PATENT-APPL-SN-249304
		US-PATENT-CLASS-528-110			US-PATENT-CLASS-73-646			US-PATENT-CLASS-364-557
		US-PATENT-CLASS-528-361			US-PATENT-CLASS-73-658			US-PATENT-CLASS-364-558
		US-PATENT-4,410,682			US-PATENT-4,413,522			US-PATENT-CLASS-364-571
N84-11214*	c 24	NASA-CASE-LAR-12807-1	N84-12491*	c 37	NASA-CASE-GSC-12619-1			US-PATENT-CLASS-73-714
		US-PATENT-APPL-SN-280155			US-PATENT-APPL-SN-225499			US-PATENT-4,399,515
		US-PATENT-CLASS-228-157			US-PATENT-CLASS-101-407BP	N84-14509*	c 36	NASA-CASE-GSC-12565-1
		US-PATENT-CLASS-228-181			US-PATENT-CLASS-269-3			US-PATENT-APPL-SN-270763
		US-PATENT-CLASS-228-212			US-PATENT-4,393,777			US-PATENT-CLASS-350-299
		US-PATENT-CLASS-244-119	N84-12492*	c 37	NASA-CASE-GSC-12622-1			US-PATENT-CLASS-356-345
		US-PATENT-CLASS-244-123			US-PATENT-APPL-SN-243684			US-PATENT-CLASS-372-100
		US-PATENT-CLASS-428-593			US-PATENT-CLASS-308-2A			US-PATENT-CLASS-372-108
		US-PATENT-CLASS-52-806			US-PATENT-4,405,184			US-PATENT-CLASS-372-93
		US-PATENT-CLASS-52-808	N84-12493*	c 37	NASA-CASE-LAR-12923-1			US-PATENT-CLASS-372-94
		US-PATENT-4,411,380			US-PATENT-APPL-SN-383063			US-PATENT-CLASS-372-98
N84-11497*	c 37	NASA-CASE-MFS-25678-1			US-PATENT-CLASS-416-117			US-PATENT-4,420,836
		US-PATENT-APPL-SN-378533			US-PATENT-CLASS-416-132B	N84-14583*	c 44	NASA-CASE-NPO-15100-1
		US-PATENT-CLASS-277-116.6			US-PATENT-4,415,311			US-PATENT-APPL-SN-259211
		US-PATENT-CLASS-277-124	N84-12654*	c 45	NASA-CASE-NSTL-10			US-PATENT-CLASS-138-42
		US-PATENT-CLASS-277-164			US-PATENT-APPL-SN-335036			US-PATENT-CLASS-251-127
		US-PATENT-CLASS-277-177			US-PATENT-CLASS-210-151			US-PATENT-4,418,722
		US-PATENT-CLASS-277-190			US-PATENT-CLASS-210-602	N84-14873*	c 71	NASA-CASE-LAR-11903-2
		US-PATENT-4,410,189			US-PATENT-CLASS-210-605			US-PATENT-APPL-SN-238791
N84-11744*	c 52	NASA-CASE-MFS-25740-1			US-PATENT-CLASS-210-617			US-PATENT-APPL-SN-753971
		US-PATENT-APPL-SN-371352			US-PATENT-CLASS-47-58			US-PATENT-CLASS-239-265.17
		US-PATENT-CLASS-128-DIG.25	N84-12968* #	c 76	US-PATENT-4,415,450			US-PATENT-4,398,667
		US-PATENT-CLASS-128-1R			NASA-CASE-NPO-15811-1	N84-16231*	c 15	NASA-CASE-LAR-12751-1
		US-PATENT-CLASS-128-346			US-PATENT-APPL-SN-547175			US-PATENT-APPL-SN-338386
		US-PATENT-4,408,597	N84-14132*	c 04	NASA-CASE-LAR-12638-1			US-PATENT-CLASS-73-167
N84-11758*	c 54	NASA-CASE-MSC-18223-2			US-PATENT-APPL-SN-367187			US-PATENT-CLASS-73-432R
		US-PATENT-APPL-SN-219681			US-PATENT-CLASS-33-DIG.3			US-PATENT-CLASS-73-9
		US-PATENT-APPL-SN-368187			US-PATENT-CLASS-33-348	N84-16255*	c 23	US-PATENT-4,425,785
		US-PATENT-CLASS-604-368			US-PATENT-CLASS-33-356			NASA-CASE-NPO-15767-1
		US-PATENT-CLASS-604-378			US-PATENT-CLASS-33-361			US-PATENT-APPL-SN-315584
		US-PATENT-CLASS-604-396			US-PATENT-4,418,480			US-PATENT-CLASS-208-10
		US-PATENT-4,338,371	N84-14322*	c 27	NASA-CASE-ARC-11400-1			US-PATENT-CLASS-208-8LE
		US-PATENT-4,411,660			US-PATENT-APPL-SN-441899			US-PATENT-4,388,171
N84-11920*	c 74	NASA-CASE-GSC-12640-1			US-PATENT-CLASS-428-246	N84-16262*	c 24	NASA-CASE-MSC-16934-3
		US-PATENT-APPL-SN-267178			US-PATENT-CLASS-428-260			US-PATENT-APPL-SN-185868
		US-PATENT-CLASS-250-363R			US-PATENT-CLASS-428-367			US-PATENT-APPL-SN-361711
		US-PATENT-CLASS-250-363S			US-PATENT-CLASS-428-408			US-PATENT-APPL-SN-969757
		US-PATENT-CLASS-250-368			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-164-119
		US-PATENT-CLASS-378-2			US-PATENT-CLASS-428-902			US-PATENT-CLASS-264-118
		US-PATENT-4,404,469			US-PATENT-CLASS-428-920			US-PATENT-CLASS-264-59
N84-11921*	c 74	NASA-CASE-NPO-15375-1			US-PATENT-CLASS-524-494			US-PATENT-CLASS-264-60
		US-PATENT-APPL-SN-210405			US-PATENT-CLASS-524-496	N84-16276*	c 25	US-PATENT-4,421,700
		US-PATENT-CLASS-250-227			US-PATENT-CLASS-524-500			NASA-CASE-LEW-13426-1
		US-PATENT-CLASS-3-1.1			US-PATENT-CLASS-524-530			US-PATENT-APPL-SN-393588
		US-PATENT-CLASS-350-96.10			US-PATENT-CLASS-525-282			US-PATENT-CLASS-110-186
		US-PATENT-CLASS-350-96.15			US-PATENT-CLASS-525-287			US-PATENT-CLASS-110-262
		US-PATENT-CLASS-73-432T			US-PATENT-4,421,820			US-PATENT-CLASS-110-263
N84-12154*	c 05	US-PATENT-4,405,197	N84-14323*	c 27	NASA-CASE-LAR-12881-1			US-PATENT-CLASS-110-265
		NASA-CASE-LAR-12615-1			US-PATENT-APPL-SN-361215			US-PATENT-CLASS-431-1
		US-PATENT-APPL-SN-263829			US-PATENT-CLASS-206-447			US-PATENT-4,425,854
		US-PATENT-CLASS-244-13			US-PATENT-CLASS-206-582	N84-16452*	c 33	NASA-CASE-LEW-13570-1
		US-PATENT-CLASS-244-45R			US-PATENT-CLASS-428-202			US-PATENT-APPL-SN-251009
		US-PATENT-CLASS-244-53R			US-PATENT-CLASS-428-347			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-244-55			US-PATENT-CLASS-428-40			US-PATENT-CLASS-315-3.6
		US-PATENT-CLASS-244-91			US-PATENT-CLASS-428-78			US-PATENT-CLASS-315-39.3
		US-PATENT-4,415,133			US-PATENT-4,420,518			US-PATENT-CLASS-333-162
N84-12193* #	c 09	NASA-CASE-ARC-11426-1	N84-14324*	c 27	NASA-CASE-MSC-18382-2			US-PATENT-4,422,012
		US-PATENT-APPL-SN-526741			US-PATENT-APPL-SN-241155	N84-16453*	c 33	NASA-CASE-MFS-25430-1
N84-12262*	c 25	US-PATENT-APPL-SN-526741			US-PATENT-CLASS-524-371			US-PATENT-APPL-SN-383083
		NASA-CASE-NPO-15458-1			US-PATENT-4,395,511			US-PATENT-CLASS-363-25
		US-PATENT-APPL-SN-376306	N84-14421*	c 33	NASA-CASE-GSC-12650-1			US-PATENT-CLASS-363-65
		US-PATENT-CLASS-204-DIG.3			US-PATENT-APPL-SN-301077			US-PATENT-CLASS-363-67
		US-PATENT-CLASS-204-129			US-PATENT-CLASS-330-107			US-PATENT-CLASS-363-71
		US-PATENT-CLASS-204-242			US-PATENT-CLASS-330-109			US-PATENT-4,426,678
		US-PATENT-CLASS-204-278			US-PATENT-4,417,215	N84-16454*	c 33	NASA-CASE-GSC-12645-1
		US-PATENT-CLASS-204-290R			NASA-CASE-LEW-13286-1			US-PATENT-APPL-SN-284314
		US-PATENT-CLASS-427-443.2			US-PATENT-APPL-SN-272406			US-PATENT-CLASS-324-79R
		US-PATENT-CLASS-429-111			US-PATENT-CLASS-252-182.1			US-PATENT-CLASS-324-83A
		US-PATENT-4,414,080			US-PATENT-CLASS-429-206			US-PATENT-CLASS-324-83R
N84-12406*	c 34	NASA-CASE-MFS-25631-1			US-PATENT-CLASS-429-229			US-PATENT-CLASS-328-133
		US-PATENT-APPL-SN-308203			US-PATENT-4,418,130			US-PATENT-CLASS-330-289
		US-PATENT-CLASS-239-426	N84-14423*	c 33	NASA-CASE-MFS-25211-2			US-PATENT-4,425,543
		US-PATENT-4,413,784			US-PATENT-APPL-SN-432057	N84-16455*	c 33	NASA-CASE-MFS-25616-1
N84-12443*	c 35	NASA-CASE-FRC-11068-1						

			US-PATENT-APPL-SN-325932				US-PATENT-CLASS-244-215				US-PATENT-APPL-SN-433598
			US-PATENT-CLASS-318-799				US-PATENT-CLASS-244-216				US-PATENT-CLASS-524-171
			US-PATENT-CLASS-323-243				US-PATENT-CLASS-244-219				US-PATENT-CLASS-525-534
			US-PATENT-CLASS-323-246				US-PATENT-4,444,368				US-PATENT-CLASS-525-535
			US-PATENT-4,426,614				NASA-CASE-LEW-13622-1				US-PATENT-CLASS-525-536
N84-16456*	c 33		NASA-CASE-NPO-15161-1	N84-22559*	c 07		US-PATENT-APPL-SN-350473				US-PATENT-CLASS-528-25
			US-PATENT-APPL-SN-325083				US-PATENT-CLASS-364-558				US-PATENT-CLASS-528-26
			US-PATENT-CLASS-427-216				US-PATENT-CLASS-73-115				US-PATENT-4,431,761
			US-PATENT-CLASS-427-217				US-PATENT-4,428,226	N84-22748*	c 27		NASA-CASE-NPO-15640-1
			US-PATENT-CLASS-427-226				NASA-CASE-LEW-13654-1				US-PATENT-APPL-SN-465367
			US-PATENT-CLASS-427-376.6	N84-22560*	c 07		US-PATENT-APPL-SN-245571				US-PATENT-CLASS-156-304.3
			US-PATENT-CLASS-427-376.7				US-PATENT-CLASS-416-224				US-PATENT-CLASS-156-304.6
			US-PATENT-CLASS-427-436				US-PATENT-CLASS-416-233				US-PATENT-CLASS-156-499
			US-PATENT-CLASS-427-437				US-PATENT-CLASS-416-92				US-PATENT-CLASS-156-81
			US-PATENT-CLASS-427-58				US-PATENT-CLASS-416-97R				US-PATENT-CLASS-156-89
			US-PATENT-CLASS-427-75				US-PATENT-4,411,597				US-PATENT-4,420,352
			US-PATENT-CLASS-427-88	N84-22601*	c 16		NASA-CASE-MSC-20254-1	N84-22749*	c 27		NASA-CASE-LAR-12980-1
			US-PATENT-CLASS-427-96				US-PATENT-APPL-SN-418137				US-PATENT-APPL-SN-469866
			US-PATENT-4,386,346				US-PATENT-CLASS-244-158A				US-PATENT-CLASS-528-125
N84-16523*	c 35		NASA-CASE-LAR-12007-3				US-PATENT-CLASS-52-404				US-PATENT-CLASS-528-128
			US-PATENT-APPL-SN-352831				US-PATENT-CLASS-52-506				US-PATENT-CLASS-528-172
			US-PATENT-CLASS-33-293				US-PATENT-4,439,968				US-PATENT-CLASS-528-185
			US-PATENT-4,428,122	N84-22605*	c 18		NASA-CASE-MSC-18969-1				US-PATENT-4,444,979
N84-16542*	c 36		NASA-CASE-LAR-12870-1				US-PATENT-APPL-SN-368189	N84-22750*	c 27		NASA-CASE-ARC-11370-1
			US-PATENT-APPL-SN-317658				US-PATENT-CLASS-244-161				US-PATENT-APPL-SN-491125
			US-PATENT-CLASS-372-55				US-PATENT-CLASS-403-322				US-PATENT-CLASS-525-389
			US-PATENT-CLASS-372-79				US-PATENT-4,431,333				US-PATENT-CLASS-528-394
			US-PATENT-4,424,592	N84-22609* #	c 18		NASA-CASE-MFS-15429-1				US-PATENT-CLASS-528-399
N84-16560*	c 37		NASA-CASE-MFS-25510-1				US-PATENT-APPL-SN-596959				US-PATENT-CLASS-528-6
			US-PATENT-APPL-SN-293414				NASA-CASE-MSC-20543-1				US-PATENT-CLASS-528-7
			US-PATENT-CLASS-248-228	N84-22610* #	c 18		US-PATENT-APPL-SN-580574				US-PATENT-CLASS-568-4
			US-PATENT-4,422,609				NASA-CASE-ARC-11505-1				US-PATENT-CLASS-568-5
N84-16561*	c 37		NASA-CASE-LAR-12785-1	N84-22612* #	c 18		US-PATENT-APPL-SN-588036				US-PATENT-4,444,972
			US-PATENT-APPL-SN-297488				NASA-CASE-LEW-13837-1	N84-22820*	c 32		NASA-CASE-MSC-18675-1
			US-PATENT-CLASS-239-568				US-PATENT-APPL-SN-495381				US-PATENT-APPL-SN-266687
			US-PATENT-CLASS-241-95	N84-22695*	c 24		US-PATENT-CLASS-204-192C				US-PATENT-CLASS-343-17.5
			US-PATENT-CLASS-406-155				US-PATENT-CLASS-204-192R				US-PATENT-CLASS-343-9R
			US-PATENT-4,428,703				US-PATENT-CLASS-204-192SP				US-PATENT-4,439,766
N84-16803*	c 54		NASA-CASE-MSC-20202-1				US-PATENT-CLASS-423-DIG.10	N84-22884*	c 33		NASA-CASE-MFS-256704-1
			US-PATENT-APPL-SN-414106				US-PATENT-CLASS-423-414				US-PATENT-APPL-SN-409679
			US-PATENT-CLASS-128-1A				US-PATENT-CLASS-423-445				US-PATENT-CLASS-204-192EC
			US-PATENT-CLASS-128-15R				US-PATENT-CLASS-423-446				US-PATENT-4,437,961
			US-PATENT-CLASS-128-38				US-PATENT-CLASS-423-449	N84-22885*	c 33		NASA-CASE-MFS-25535-2
			US-PATENT-4,421,109				US-PATENT-4,437,962				US-PATENT-APPL-SN-476244
N84-16940*	c 71		NASA-CASE-NPO-15592-1	N84-22709*	c 25		NASA-CASE-NPO-15210-1				US-PATENT-CLASS-318-438
			US-PATENT-APPL-SN-314702				US-PATENT-APPL-SN-322312				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-118-300				US-PATENT-CLASS-208-10				US-PATENT-CLASS-318-798
			US-PATENT-CLASS-118-50				US-PATENT-CLASS-208-8LE				US-PATENT-CLASS-318-805
			US-PATENT-CLASS-118-50.1				US-PATENT-4,443,321				US-PATENT-CLASS-318-810
			US-PATENT-CLASS-118-500	N84-22734*	c 26		NASA-CASE-LEW-13349-1				US-PATENT-4,433,276
			US-PATENT-CLASS-118-57				US-PATENT-APPL-SN-350476	N84-22886*	c 33		NASA-CASE-MFS-25323-1
			US-PATENT-CLASS-118-62				US-PATENT-CLASS-29-623.5				US-PATENT-APPL-SN-297524
			US-PATENT-CLASS-427-346				US-PATENT-CLASS-427-115				US-PATENT-CLASS-318-729
			US-PATENT-CLASS-427-421				US-PATENT-CLASS-427-125				US-PATENT-CLASS-318-812
			US-PATENT-CLASS-427-426				US-PATENT-CLASS-427-126.6				US-PATENT-4,439,718
			US-PATENT-CLASS-427-57				US-PATENT-CLASS-427-296	N84-22887*	c 33		NASA-CASE-GSC-12567-1
			US-PATENT-CLASS-427-6				US-PATENT-CLASS-427-306				US-PATENT-APPL-SN-373839
			US-PATENT-CLASS-65-213				US-PATENT-CLASS-429-223				US-PATENT-CLASS-330-109
			US-PATENT-4,425,376				US-PATENT-CLASS-429-234				US-PATENT-CLASS-330-277
N84-16959* #	c 72		NASA-CASE-NPO-15547-1				US-PATENT-4,439,465				US-PATENT-CLASS-330-294
			US-PATENT-APPL-SN-276076	N84-22744*	c 27		NASA-CASE-ARC-11402-1				US-PATENT-4,437,069
N84-17555*	c 35		NASA-CASE-NPO-15426-1				US-PATENT-APPL-SN-366025	N84-22903*	c 34		NASA-CASE-NPO-15465-1
			US-PATENT-APPL-SN-196877				US-PATENT-CLASS-260-465.5R				US-PATENT-APPL-SN-284289
			US-PATENT-CLASS-210-748				US-PATENT-CLASS-260-465.6				US-PATENT-CLASS-126-417
			US-PATENT-CLASS-422-121				US-PATENT-CLASS-528-362				US-PATENT-CLASS-165-DIG.6
			US-PATENT-CLASS-422-169				US-PATENT-CLASS-528-401				US-PATENT-CLASS-165-135
			US-PATENT-CLASS-422-178				US-PATENT-CLASS-528-422				US-PATENT-CLASS-62-DIG.1
			US-PATENT-CLASS-422-186				US-PATENT-CLASS-528-423				US-PATENT-CLASS-62-264
			US-PATENT-CLASS-55-DIG.25				US-PATENT-CLASS-544-215				US-PATENT-CLASS-62-467R
			US-PATENT-CLASS-55-DIG.30				US-PATENT-CLASS-564-243				US-PATENT-4,423,605
			US-PATENT-CLASS-55-105				US-PATENT-4,434,106	N84-22928*	c 35		NASA-CASE-MFS-25687-1
			US-PATENT-CLASS-55-12				NASA-CASE-ARC-11368-3				US-PATENT-APPL-SN-350474
			US-PATENT-CLASS-55-126	N84-22745*	c 27		US-PATENT-APPL-SN-288267				US-PATENT-CLASS-324-262
			US-PATENT-CLASS-55-131				US-PATENT-APPL-SN-512795				US-PATENT-CLASS-73-620
			US-PATENT-CLASS-55-138				US-PATENT-CLASS-428-370				US-PATENT-CLASS-73-633
			US-PATENT-CLASS-55-139				US-PATENT-CLASS-428-408				US-PATENT-CLASS-74-58
			US-PATENT-CLASS-55-145				US-PATENT-CLASS-428-902				US-PATENT-4,434,659
			US-PATENT-CLASS-55-2				US-PATENT-CLASS-428-920	N84-22929*	c 35		NASA-CASE-MFS-25405-1
			US-PATENT-CLASS-55-270				US-PATENT-CLASS-525-417				US-PATENT-APPL-SN-274708
			US-PATENT-CLASS-55-283				US-PATENT-CLASS-526-262				US-PATENT-CLASS-356-347
			US-PATENT-CLASS-55-291				US-PATENT-CLASS-528-228				US-PATENT-4,428,675
			US-PATENT-CLASS-55-466				US-PATENT-CLASS-528-322	N84-22930*	c 35		NASA-CASE-LEW-13598-1
			US-PATENT-CLASS-55-6				US-PATENT-CLASS-548-415				US-PATENT-APPL-SN-425203
			US-PATENT-CLASS-55-96				US-PATENT-4,395,557				US-PATENT-CLASS-101-395
			US-PATENT-CLASS-60-275				US-PATENT-4,433,115				US-PATENT-CLASS-156-630
			US-PATENT-CLASS-60-303	N84-22746*	c 27		NASA-CASE-LAR-12723-2				US-PATENT-CLASS-156-654
			US-PATENT-CLASS-60-311				US-PATENT-APPL-SN-199768				US-PATENT-CLASS-156-905
			US-PATENT-4,376,637				US-PATENT-APPL-SN-447371				US-PATENT-CLASS-228-165
N84-22546*	c 04		NASA-CASE-GSC-12508-1				US-PATENT-CLASS-525-426				US-PATENT-4,437,923
			US-PATENT-APPL-SN-266253				US-PATENT-CLASS-528-183	N84-22931*	c 35		NASA-CASE-NPO-15398-1
			US-PATENT-CLASS-343-356				US-PATENT-CLASS-528-220				US-PATENT-APPL-SN-259212
			US-PATENT-CLASS-343-357				US-PATENT-CLASS-528-345				US-PATENT-CLASS-356-216
			US-PATENT-4,445,118				US-PATENT-CLASS-528-348				US-PATENT-CLASS-356-234
N84-22551*	c 05		NASA-CASE-LAR-12541-1				US-PATENT-4,395,540				US-PATENT-4,431,306
			US-PATENT-APPL-SN-315588				US-PATENT-4,431,792	N84-22932*	c 35		NASA-CASE-LAR-12967-1
			US-PATENT-CLASS-244-212	N84-22747*	c 27		NASA-CASE-LAR-12931-1				US-PATENT-APPL-SN-414107

				US-PATENT-CLASS-310-317				US-PATENT-CLASS-350-443				US-PATENT-APPL-SN-450166
				US-PATENT-CLASS-310-334				US-PATENT-4,444,464				US-PATENT-CLASS-318-729
				US-PATENT-CLASS-310-366				NASA-CASE-LEW-14035-1				US-PATENT-CLASS-318-809
				US-PATENT-4,446,396		N84-24577*	c 07	US-PATENT-APPL-SN-136652				US-PATENT-CLASS-323-300
N84-22933*	c 35			NASA-CASE-LAR-12995-1				US-PATENT-CLASS-60-757				US-PATENT-4,459,528
				US-PATENT-APPL-SN-444150				US-PATENT-4,414,816		N84-28015*	c 35	NASA-CASE-WLP-10055-1
				US-PATENT-CLASS-181-121		N84-25037* #	c 36	NASA-CASE-NPO-16030-1				US-PATENT-APPL-SN-352827
				US-PATENT-CLASS-367-189				US-PATENT-APPL-SN-582494				US-PATENT-CLASS-73-862.65
				US-PATENT-CLASS-73-589		N84-27713*	c 04	NASA-CASE-NPO-15264-1		N84-28016*	c 35	US-PATENT-4,425,808
				US-PATENT-CLASS-73-594				US-PATENT-APPL-SN-241154				NASA-CASE-NPO-15423-1
				US-PATENT-4,445,378				US-PATENT-CLASS-343-105R				US-PATENT-APPL-SN-361216
N84-22934*	c 35			NASA-CASE-ARC-11361-1				US-PATENT-CLASS-364-452				US-PATENT-CLASS-250-296
				US-PATENT-APPL-SN-373771				US-PATENT-4,396,918		N84-28017*	c 35	US-PATENT-4,435,642
				US-PATENT-CLASS-340-870.13		N84-27733*	c 06	NASA-CASE-LAR-12630-1				NASA-CASE-NPO-15706-1
				US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-383384				US-PATENT-APPL-SN-350475
				US-PATENT-CLASS-73-721				US-PATENT-CLASS-340-705				US-PATENT-CLASS-310-154
				US-PATENT-CLASS-73-756				US-PATENT-CLASS-340-971				US-PATENT-CLASS-310-171
				US-PATENT-4,442,716				US-PATENT-CLASS-340-975				US-PATENT-CLASS-310-68B
N84-22943*	c 36			NASA-CASE-NPO-15516-1				US-PATENT-CLASS-340-978				US-PATENT-CLASS-335-222
				US-PATENT-APPL-SN-364126				US-PATENT-CLASS-340-980		N84-28018*	c 35	US-PATENT-4,443,724
				US-PATENT-CLASS-372-20				US-PATENT-CLASS-73-178R				NASA-CASE-MFS-25754-1
				US-PATENT-CLASS-372-28				US-PATENT-4,453,163				US-PATENT-APPL-SN-359626
				US-PATENT-CLASS-372-32		N84-27749*	c 09	NASA-CASE-MFS-25791-1				US-PATENT-CLASS-33-169F
				US-PATENT-4,434,490				US-PATENT-APPL-SN-409678				US-PATENT-CLASS-62-128
N84-22944*	c 36			NASA-CASE-LEW-13526-1				US-PATENT-CLASS-417-159				US-PATENT-CLASS-73-150R
				US-PATENT-APPL-SN-358398				US-PATENT-CLASS-73-117.1				US-PATENT-CLASS-73-170R
				US-PATENT-CLASS-118-50.1				US-PATENT-4,454,753				US-PATENT-CLASS-73-32R
				US-PATENT-CLASS-118-624		N84-27784*	c 16	NASA-CASE-MFS-25853-1				US-PATENT-CLASS-73-864.41
				US-PATENT-CLASS-118-641				US-PATENT-APPL-SN-418138				US-PATENT-4,398,412
				US-PATENT-CLASS-427-399				US-PATENT-CLASS-244-158R		N84-28019*	c 35	NASA-CASE-LAR-12743-1
				US-PATENT-CLASS-427-53.1				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-372279
				US-PATENT-4,434,189				US-PATENT-CLASS-244-63				US-PATENT-CLASS-374-1
N84-22957*	c 37			NASA-CASE-LEW-13269-2				US-PATENT-4,452,412				US-PATENT-CLASS-73-1B
				US-PATENT-APPL-SN-242795		N84-27787*	c 18	NASA-CASE-MFS-25878-1				US-PATENT-4,426,874
				US-PATENT-APPL-SN-431448				US-PATENT-APPL-SN-431886		N84-28065*	c 36	NASA-CASE-GSC-12592-1
				US-PATENT-CLASS-415-174				US-PATENT-CLASS-244-172				US-PATENT-APPL-SN-199766
				US-PATENT-CLASS-427-34				US-PATENT-CLASS-244-2				US-PATENT-CLASS-372-103
				US-PATENT-CLASS-427-423				US-PATENT-CLASS-244-63				US-PATENT-CLASS-372-4
				US-PATENT-CLASS-427-53.1				US-PATENT-4,451,017				US-PATENT-CLASS-372-71
				US-PATENT-CLASS-428-155		N84-27829*	c 24	NASA-CASE-LEW-13758-1				US-PATENT-CLASS-372-93
				US-PATENT-4,377,371				US-PATENT-APPL-SN-418139				US-PATENT-CLASS-372-95
				US-PATENT-4,430,360				US-PATENT-CLASS-73-833				US-PATENT-4,446,556
N84-22958*	c 37			NASA-CASE-LEW-12590-1				US-PATENT-CLASS-73-856		N84-28081*	c 37	NASA-CASE-NPO-14597-2
				US-PATENT-APPL-SN-229693				US-PATENT-4,452,088				US-PATENT-APPL-SN-037194
				US-PATENT-CLASS-60-730		N84-27855*	c 26	NASA-CASE-LEW-13639-2				US-PATENT-APPL-SN-401288
				US-PATENT-CLASS-60-736				US-PATENT-APPL-SN-456460				US-PATENT-CLASS-417-328
				US-PATENT-4,429,537				US-PATENT-CLASS-427-34				US-PATENT-CLASS-417-392
N84-23012* #	c 43			NASA-CASE-NPO-15656-1				US-PATENT-CLASS-427-405				US-PATENT-CLASS-417-462
				US-PATENT-APPL-SN-569370				US-PATENT-CLASS-427-419.2				US-PATENT-4,449,894
N84-23018*	c 44			NASA-CASE-NPO-15496-1				US-PATENT-CLASS-428-632		N84-28082*	c 37	NASA-CASE-GSC-12550-1
				US-PATENT-APPL-SN-379602				US-PATENT-4,451,496				US-PATENT-APPL-SN-238888
				US-PATENT-CLASS-290-55		N84-27884*	c 27	NASA-CASE-ARC-11405-1				US-PATENT-CLASS-73-468
				US-PATENT-CLASS-415-DIG.8				US-PATENT-APPL-SN-415880				US-PATENT-CLASS-74-5.5
				US-PATENT-CLASS-415-2R				US-PATENT-CLASS-528-271				US-PATENT-CLASS-74-573R
				US-PATENT-CLASS-60-641.12				US-PATENT-CLASS-528-310				US-PATENT-4,458,554
				US-PATENT-CLASS-60-698				US-PATENT-CLASS-528-327		N84-28083*	c 37	NASA-CASE-GSC-12762-1
				US-PATENT-CLASS-60-716				US-PATENT-CLASS-528-331				US-PATENT-APPL-SN-364094
				US-PATENT-4,433,544				US-PATENT-CLASS-528-362				US-PATENT-CLASS-269-224
N84-23019*	c 44			NASA-CASE-LAR-12958-1				US-PATENT-4,450,268				US-PATENT-CLASS-269-242
				US-PATENT-APPL-SN-433196		N84-27885*	c 27	NASA-CASE-LEW-13770-1				US-PATENT-CLASS-269-244
				US-PATENT-CLASS-104-DIG.4				US-PATENT-APPL-SN-404809				US-PATENT-CLASS-269-252
				US-PATENT-CLASS-204-DIG.3				US-PATENT-CLASS-526-262				US-PATENT-CLASS-269-285
				US-PATENT-CLASS-204-129				US-PATENT-CLASS-528-322				US-PATENT-4,448,408
				US-PATENT-CLASS-204-278				US-PATENT-CLASS-528-342		N84-28084*	c 37	NASA-CASE-LAR-12644-1
				US-PATENT-CLASS-204-280				US-PATENT-4,455,418				US-PATENT-APPL-SN-387728
				US-PATENT-CLASS-423-303		N84-27886*	c 27	NASA-CASE-LAR-12862-1				US-PATENT-CLASS-74-753
				US-PATENT-CLASS-429-111				US-PATENT-APPL-SN-435511				US-PATENT-CLASS-74-758
				US-PATENT-4,439,301				US-PATENT-CLASS-220-306				US-PATENT-CLASS-74-812
N84-23095*	c 52			NASA-CASE-LEW-13107-2				US-PATENT-CLASS-244-117A				US-PATENT-4,446,757
				US-PATENT-APPL-SN-444124				US-PATENT-CLASS-244-158A		N84-28085*	c 37	NASA-CASE-LAR-12786-1
				US-PATENT-CLASS-156-643				US-PATENT-4,456,208				US-PATENT-APPL-SN-309292
				US-PATENT-CLASS-156-644		N84-27951*	c 32	NASA-CASE-NPO-15024-1				US-PATENT-CLASS-30-180
				US-PATENT-CLASS-156-668				US-PATENT-APPL-SN-284287				US-PATENT-CLASS-30-188
				US-PATENT-CLASS-204-192E				US-PATENT-CLASS-343-17.7				US-PATENT-CLASS-30-228
				US-PATENT-4,432,853				US-PATENT-CLASS-434-2				US-PATENT-CLASS-30-249
N84-23113*	c 54			NASA-CASE-MSC-20261-2				US-PATENT-4,450,447				US-PATENT-CLASS-30-272R
				US-PATENT-APPL-SN-393581		N84-27952*	c 32	NASA-CASE-MSC-16170-2				US-PATENT-4,458,418
				US-PATENT-CLASS-2-161R				US-PATENT-APPL-SN-147695		N84-28203*	c 44	NASA-CASE-NPO-15388-1
				US-PATENT-CLASS-2-167				US-PATENT-APPL-SN-737975				US-PATENT-APPL-SN-284286
				US-PATENT-4,433,439				US-PATENT-CLASS-329-124				US-PATENT-CLASS-126-419
N84-23233*	c 71			NASA-CASE-NPO-15689-1				US-PATENT-CLASS-375-120				US-PATENT-CLASS-126-438
				US-PATENT-APPL-SN-358089				US-PATENT-CLASS-375-77				US-PATENT-CLASS-126-451
				US-PATENT-CLASS-310-300				US-PATENT-CLASS-375-81		N84-28204*	c 44	US-PATENT-4,433,672
				US-PATENT-CLASS-318-116				US-PATENT-CLASS-455-202				NASA-CASE-NPO-15662-1
				US-PATENT-CLASS-60-721				US-PATENT-CLASS-455-208				US-PATENT-APPL-SN-392103
				US-PATENT-CLASS-73-505				US-PATENT-CLASS-455-260				US-PATENT-CLASS-126-418
				US-PATENT-4,420,977				US-PATENT-CLASS-455-265				US-PATENT-CLASS-126-438
N84-23247*	c 74			NASA-CASE-NPO-15345-1				US-PATENT-4,455,680				US-PATENT-CLASS-126-440
				US-PATENT-APPL-SN-276749		N84-27974*	c 33	NASA-CASE-LEW-13736-1				US-PATENT-4,449,514
				US-PATENT-CLASS-358-125				US-PATENT-APPL-SN-434084		N84-28205*	c 44	NASA-CASE-LEW-13653-1
				US-PATENT-CLASS-358-213				US-PATENT-CLASS-315-3.6				US-PATENT-APPL-SN-352821
				US-PATENT-4,430,673				US-PATENT-CLASS-315-39.3				US-PATENT-CLASS-204-290
N84-23248*	c 74			NASA-CASE-GSC-12756-1				US-PATENT-CLASS-331-82				US-PATENT-CLASS-29-623.5
				US-PATENT-APPL-SN-378535				US-PATENT-CLASS-333-162				US-PATENT-CLASS-29-825
				US-PATENT-CLASS-350-172				US-PATENT-4,459,562				US-PATENT-CLASS-427-113
				US-PATENT-CLASS-350-173		N84-27975*	c 33	NASA-CASE-MFS-25854-1				US-PATENT-CLASS-427-115

		US-PATENT-CLASS-427-125			US-PATENT-APPL-SN-452466			US-PATENT-CLASS-250-251
		US-PATENT-CLASS-427-226			US-PATENT-CLASS-297-DIG.5			US-PATENT-CLASS-250-252.1
		US-PATENT-CLASS-427-372.2			US-PATENT-CLASS-428-246			US-PATENT-CLASS-250-372
		US-PATENT-CLASS-427-379			US-PATENT-CLASS-428-280			US-PATENT-4,469,942
		US-PATENT-CLASS-427-380			US-PATENT-CLASS-428-287	N84-33768*	c 35	NAS 1.71:MFS-25717-1
		US-PATENT-CLASS-427-443			US-PATENT-CLASS-428-304.4			NASA-CASE-MFS-25717-1
		US-PATENT-CLASS-429-44			US-PATENT-CLASS-428-319.1			US-PATENT-APPL-SN-441897
		US-PATENT-4,454,649			US-PATENT-CLASS-428-423.5			US-PATENT-CLASS-175-45
N84-28292*	c 47	NASA-CASE-LAR-12971-1			US-PATENT-CLASS-428-71			US-PATENT-CLASS-299-1
		US-PATENT-APPL-SN-444149			US-PATENT-CLASS-428-76			US-PATENT-4,466,667
		US-PATENT-CLASS-250-356.1			US-PATENT-CLASS-428-921	N84-33769*	c 35	NAS 1.71:NPO-15341-1
		US-PATENT-CLASS-73-189			US-PATENT-CLASS-5-459			NASA-CASE-NPO-15341-1
		US-PATENT-CLASS-73-861.71			US-PATENT-4,463,465			US-PATENT-APPL-SN-315588
		US-PATENT-4,449,400	N84-33400* #	c 05	NAS 1.71:LAR-13233-1			US-PATENT-CLASS-180-168
N84-28361*	c 51	NASA-CASE-ARC-11359-1			NASA-CASE-LAR-13233-1			US-PATENT-CLASS-318-587
		US-PATENT-APPL-SN-392092			US-PATENT-APPL-SN-649329			US-PATENT-CLASS-340-905
		US-PATENT-CLASS-264-41	N84-33410*	c 07	NAS 1.71:LEW-13524-1			US-PATENT-CLASS-340-988
		US-PATENT-CLASS-521-141			NASA-CASE-LEW-13524-1			US-PATENT-4,472,716
		US-PATENT-CLASS-521-142			US-PATENT-APPL-SN-238257	N84-33807*	c 37	NAS 1.71:MFS-25862-2
		US-PATENT-CLASS-521-149			US-PATENT-CLASS-415-115			NASA-CASE-MFS-25862-2
		US-PATENT-4,456,708			US-PATENT-CLASS-60-39.29			US-PATENT-APPL-SN-460509
N84-28388*	c 52	NASA-CASE-LAR-12650-1			US-PATENT-CLASS-60-39.83			US-PATENT-CLASS-73-12
		US-PATENT-APPL-SN-264381			US-PATENT-4,416,111			US-PATENT-CLASS-73-588
		US-PATENT-CLASS-128-325	N84-33450*	c 18	NAS 1.71:LAR-12884			US-PATENT-4,470,293
		US-PATENT-CLASS-128-346			NASA-CASE-LAR-12884-1	N84-33808*	c 37	NAS 1.71:LEW-12995-1
		US-PATENT-CLASS-24-560			US-PATENT-APPL-SN-510136			NASA-CASE-LEW-12995-1
		US-PATENT-4,416,266			US-PATENT-CLASS-428-182			US-PATENT-APPL-SN-157150
N84-28389*	c 52	NASA-CASE-LAR-12650-2			US-PATENT-CLASS-428-184			US-PATENT-CLASS-60-303
		US-PATENT-APPL-SN-264381			US-PATENT-CLASS-428-595			US-PATENT-CLASS-60-606
		US-PATENT-APPL-SN-465363			US-PATENT-CLASS-52-814			US-PATENT-4,449,370
		US-PATENT-CLASS-156-191	N84-33555*	c 26	US-PATENT-4,472,473	N84-34443*	c 06	NASA-CASE-NPO-15351-2
		US-PATENT-CLASS-156-285			NAS 1.71:LEW-13639-1			US-PATENT-APPL-SN-224231
		US-PATENT-CLASS-156-289			NASA-CASE-LEW-13639-1			US-PATENT-APPL-SN-412039
		US-PATENT-CLASS-156-382			US-PATENT-APPL-SN-403378			US-PATENT-CLASS-73-178-R
		US-PATENT-CLASS-29-423			US-PATENT-CLASS-416-241R			US-PATENT-4,346,595
		US-PATENT-CLASS-29-451			US-PATENT-CLASS-428-564			US-PATENT-4,474,062
		US-PATENT-4,447,943			US-PATENT-CLASS-428-639	N84-34448*	c 09	NASA-CASE-LAR-12950-1
N84-28484*	c 54	NASA-CASE-MSC-20261-1			US-PATENT-CLASS-428-678			US-PATENT-APPL-SN-481106
		US-PATENT-APPL-SN-393586			US-PATENT-4,446,199			US-PATENT-CLASS-73-147
		US-PATENT-CLASS-2-161R	N84-33589*	c 27	NAS 1.71:NPO-15753-1			US-PATENT-4,475,385
		US-PATENT-CLASS-2-164			NASA-CASE-NPO-15753-1	N84-34571*	c 24	NAS 1.71:LAR-13230-1
		US-PATENT-CLASS-2-167			US-PATENT-APPL-SN-342871			NASA-CASE-LAR-13230-1
		US-PATENT-4,454,611			US-PATENT-CLASS-219-203			US-PATENT-APPL-SN-548584
N84-28491*	c 60	NASA-CASE-GSC-12447-2			US-PATENT-CLASS-219-219			US-PATENT-CLASS-523-454
		US-PATENT-APPL-SN-128230			US-PATENT-CLASS-219-522			US-PATENT-CLASS-523-458
		US-PATENT-APPL-SN-501060			US-PATENT-CLASS-219-541			US-PATENT-CLASS-525-484
		US-PATENT-CLASS-364-900			US-PATENT-CLASS-219-543			US-PATENT-CLASS-528-407
		US-PATENT-4,435,781			US-PATENT-CLASS-338-309			US-PATENT-CLASS-528-92
N84-28492*	c 60	NASA-CASE-MSC-20258-1			US-PATENT-CLASS-428-432			US-PATENT-4,473,674
		US-PATENT-APPL-SN-235472			US-PATENT-4,459,470	N84-34651*	c 32	NAS 1.71:NPO-15519-1
		US-PATENT-CLASS-340-825.21	N84-33660*	c 33	NAS 1.71:MFS-25302-2			NASA-CASE-NPO-15519-1
		US-PATENT-CLASS-340-825.5			NASA-CASE-MFS-25302-2			US-PATENT-APPL-SN-314928
		US-PATENT-CLASS-364-900			US-PATENT-APPL-SN-243683			US-PATENT-CLASS-343-5-CM
		US-PATENT-4,446,459			US-PATENT-APPL-SN-481086			US-PATENT-CLASS-343-5-DP
N84-28565*	c 70	NASA-CASE-LEW-12919-2			US-PATENT-CLASS-307-87			US-PATENT-CLASS-343-5-F
		US-PATENT-APPL-SN-264378			US-PATENT-CLASS-322-25			US-PATENT-4,471,357
		US-PATENT-APPL-SN-364072			US-PATENT-CLASS-322-29	N84-34705*	c 35	NAS 1.71:NPO-15558-1
		US-PATENT-CLASS-313-106			US-PATENT-CLASS-322-47			NASA-CASE-NPO-15558-1
		US-PATENT-CLASS-313-107			US-PATENT-CLASS-322-95			US-PATENT-APPL-SN-373770
		US-PATENT-CLASS-313-351			US-PATENT-4,388,585			US-PATENT-CLASS-250-343
		US-PATENT-CLASS-315-5.38			US-PATENT-4,473,792			US-PATENT-CLASS-250-351
		US-PATENT-4,349,424	N84-33661*	c 33	NAS 1.71:MFS-25852-1			US-PATENT-CLASS-356-434
		US-PATENT-4,417,175			NASA-CASE-MFS-25852-1			US-PATENT-CLASS-356-51
N84-28568*	c 71	NASA-CASE-MFS-25828-1			US-PATENT-APPL-SN-450319			US-PATENT-4,474,471
		US-PATENT-APPL-SN-493866			US-PATENT-CLASS-318-729	N84-34792*	c 44	NAS 1.71:NPO-15808-1
		US-PATENT-CLASS-137-838			US-PATENT-CLASS-318-802			NASA-CASE-NPO-15808-1
		US-PATENT-CLASS-366-106			US-PATENT-4,469,998			US-PATENT-APPL-SN-383068
		US-PATENT-CLASS-425-6	N84-33663*	c 33	NAS 1.71:LEW-13495-1			US-PATENT-CLASS-126-415
		US-PATENT-CLASS-65-142			NASA-CASE-LEW-13495-1			US-PATENT-CLASS-4-498
		US-PATENT-CLASS-65-160			US-PATENT-APPL-SN-368188			US-PATENT-4,470,403
		US-PATENT-CLASS-65-21.3			US-PATENT-CLASS-323-901	N84-34913*	c 52	NASA-CASE-GSC-12652-1
		US-PATENT-CLASS-65-21.4			US-PATENT-CLASS-363-22			US-PATENT-APPL-SN-377891
		US-PATENT-4,447,251			US-PATENT-CLASS-363-49			US-PATENT-CLASS-128-24-A
N84-28575*	c 72	NASA-CASE-MFS-25641-1			US-PATENT-4,464,710			US-PATENT-CLASS-128-328
		US-PATENT-APPL-SN-342857	N84-33765*	c 35	NAS 1.71:GSC-12682-1			US-PATENT-4,474,180
		US-PATENT-CLASS-250-305			NASA-CASE-GSC-12682-1	N84-35112* #	c 76	NASA-CASE-NPO-15786-1
		US-PATENT-CLASS-324-457			US-PATENT-APPL-SN-350477			US-PATENT-APPL-SN-366103
		US-PATENT-CLASS-324-71.3			US-PATENT-CLASS-250-367			US-PATENT-CLASS-204-1T
		US-PATENT-CLASS-324-72.5			US-PATENT-CLASS-250-385			US-PATENT-CLASS-204-37.6
		US-PATENT-4,455,532			US-PATENT-CLASS-250-483.1			US-PATENT-CLASS-204-56R
N84-28590*	c 74	NASA-CASE-NPO-15805-1			US-PATENT-CLASS-357-29			US-PATENT-CLASS-324-158D
		US-PATENT-APPL-SN-296137			US-PATENT-CLASS-357-30			US-PATENT-CLASS-324-158T
		US-PATENT-CLASS-250-332			US-PATENT-CLASS-357-32			US-PATENT-4,462,871
		US-PATENT-CLASS-250-338			US-PATENT-4,472,728	N84-35113*	c 76	NASA-CASE-NPO-15629-1
		US-PATENT-4,443,701			NAS 1.71:NPO-13556-1			US-PATENT-APPL-SN-371351
N84-28732*	c 02	NASA-CASE-LAR-12396-1			NASA-CASE-NPO-13556-1			US-PATENT-CLASS-156-DIG.64
		US-PATENT-APPL-SN-017889			US-PATENT-APPL-SN-561369			US-PATENT-CLASS-156-DIG.88
		US-PATENT-CLASS-244-35R			US-PATENT-CLASS-250-339			US-PATENT-CLASS-156-DIG.98
		US-PATENT-CLASS-416-223R			US-PATENT-CLASS-356-188			US-PATENT-CLASS-156-608
		US-PATENT-CLASS-416-242			US-PATENT-CLASS-356-189			US-PATENT-CLASS-156-617-SP
		US-PATENT-4,459,083			US-PATENT-CLASS-356-73			US-PATENT-CLASS-156-617-V
N84-32447* #	c 25	NAS 1.71:LAR-13257-1			US-PATENT-CLASS-356-74			US-PATENT-CLASS-422-246
		NASA-CASE-LAR-13257-1			US-PATENT-4,043,668			US-PATENT-CLASS-422-249
		US-PATENT-APPL-SN-633178	N84-33767*	c 35	NAS 1.71:NPO-15644-1			US-PATENT-4,469,552
N84-33394*	c 03	NAS 1.71:ARC-11423-1			NASA-CASE-NPO-15644-1	N85-19985*	c 08	NAS 1.71:LAR-12787-2
		NASA-CASE-ARC-11423-1			US-PATENT-APPL-SN-358088			NASA-CASE-LAR-12787-2

			US-PATENT-APPL-SN-301078				US-PATENT-CLASS-251-265	N85-21349*	c 27	NAS 1.71:LAR-12775-2
			US-PATENT-APPL-SN-5226628				US-PATENT-CLASS-251-267			NASA-CASE-LAR-12775-2
			US-PATENT-CLASS-244-214				US-PATENT-CLASS-251-284			US-PATENT-APPL-SN-308201
			US-PATENT-CLASS-244-90R				US-PATENT-CLASS-251-297			US-PATENT-APPL-SN-461788
N85-19990*	c 09		US-PATENT-4,485,992				US-PATENT-CLASS-74-424.8B			US-PATENT-CLASS-525-181
			NAS 1.71:KSC-11218-1				US-PATENT-CLASS-74-424.8VA			US-PATENT-CLASS-525-182
			NASA-CASE-KSC-11218-1				US-PATENT-4,483,512			US-PATENT-CLASS-525-183
			US-PATENT-APPL-SN-387649	N85-20530*	c 44		NAS 1.71:LEW-13414-1			US-PATENT-CLASS-525-184
			US-PATENT-CLASS-434-242				NASA-CASE-LEW-13414-1			US-PATENT-CLASS-525-474
			US-PATENT-CLASS-434-243				US-PATENT-APPL-SN-465364			US-PATENT-4,389,504
			US-PATENT-CLASS-434-35				US-PATENT-CLASS-136-256			US-PATENT-4,497,935
			US-PATENT-CLASS-434-49				US-PATENT-CLASS-427-85	N85-21350*	c 27	NAS 1.71:LEW-13770-3
			US-PATENT-4,490,117				US-PATENT-4,478,879			NASA-CASE-LEW-13770-3
N85-20123*	c 27		NAS 1.71:LAR-12723-1	N85-21147*	c 05		NAS 1.71:LAR-12979-1			US-PATENT-APPL-SN-516217
			NASA-CASE-LAR-12723-1				NASA-CASE-LAR-12979-1			US-PATENT-APPL-SN-561431
			US-PATENT-APPL-SN-199768				US-PATENT-APPL-SN-508371			US-PATENT-CLASS-526-217
			US-PATENT-CLASS-525-420				US-PATENT-CLASS-244-139			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-183				US-PATENT-CLASS-244-147			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-192				US-PATENT-CLASS-244-75R			US-PATENT-CLASS-528-315
			US-PATENT-CLASS-528-220				US-PATENT-4,496,122			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-336	N85-21178*	c 09		NAS 1.71:LAR-13014-1			US-PATENT-CLASS-528-336
			US-PATENT-CLASS-528-345				NASA-CASE-LAR-13014-1			US-PATENT-CLASS-528-342
			US-PATENT-4,395,540				US-PATENT-APPL-SN-527918			US-PATENT-4,497,948
N85-20124*	c 27		NAS 1.71:LAR-12858-2				US-PATENT-CLASS-73-147	N85-21351*	c 27	NAS 1.71:LEW-13770-4
			NASA-CASE-LAR-12858-2				US-PATENT-4,493,211			NASA-CASE-LEW-13770-4
			US-PATENT-APPL-SN-407240	N85-21256*	c 20		NAS 1.71:LEW-13881-1			US-PATENT-APPL-SN-516217
			US-PATENT-APPL-SN-492282				NASA-CASE-LEW-13881-1			US-PATENT-APPL-SN-561429
			US-PATENT-CLASS-264-DIG.65				US-PATENT-APPL-SN-473498			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-264-112				US-PATENT-CLASS-60-202			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-264-120				US-PATENT-4,466,242			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-264-137	N85-21266*	c 24		NAS 1.71:LEW-13324-2			US-PATENT-CLASS-528-342
			US-PATENT-CLASS-264-152				NASA-CASE-LEW-13324-2			US-PATENT-4,497,939
			US-PATENT-CLASS-264-258				US-PATENT-APPL-SN-375784	N85-21352*	c 27	NAS 1.71:LEW-13770-5
			US-PATENT-CLASS-264-331.12				US-PATENT-APPL-SN-523297			NASA-CASE-LEW-13770-5
			US-PATENT-CLASS-264-331.19				US-PATENT-CLASS-428-633			US-PATENT-APPL-SN-516217
			US-PATENT-CLASS-528-226				US-PATENT-CLASS-428-656			US-PATENT-APPL-SN-561435
			US-PATENT-CLASS-528-239				US-PATENT-CLASS-428-678			US-PATENT-CLASS-526-262
			US-PATENT-CLASS-528-241				US-PATENT-CLASS-428-679			US-PATENT-CLASS-528-229
			US-PATENT-CLASS-528-258				US-PATENT-CLASS-428-680			US-PATENT-CLASS-528-322
			US-PATENT-CLASS-528-279				US-PATENT-CLASS-428-681			US-PATENT-CLASS-528-342
			US-PATENT-4,398,021				US-PATENT-CLASS-428-682			US-PATENT-4,497,940
			US-PATENT-4,489,027				US-PATENT-CLASS-428-683	N85-21404*	c 31	NAS 1.71:GSC-12799-1
N85-20125*	c 27		NAS 1.71:LAR-12894-1				US-PATENT-CLASS-428-684			NASA-CASE-GSC-12799-1
			NASA-CASE-LAR-12894-1				US-PATENT-4,485,151			US-PATENT-APPL-SN-461724
			US-PATENT-APPL-SN-516087	N85-21267*	c 24		NAS 1.71:LEW-13837-2			US-PATENT-CLASS-31-35
			US-PATENT-CLASS-156-273.7				NASA-CASE-LEW-13837-2			US-PATENT-CLASS-310-22
			US-PATENT-CLASS-24-304				US-PATENT-APPL-SN-495381			US-PATENT-CLASS-417-417
			US-PATENT-CLASS-24-447				US-PATENT-APPL-SN-591089			US-PATENT-CLASS-417-488
			US-PATENT-CLASS-24-450				US-PATENT-CLASS-204-192C			US-PATENT-CLASS-62-6
			US-PATENT-CLASS-24-693				US-PATENT-CLASS-204-192N			US-PATENT-CLASS-92-98R
			US-PATENT-4,488,335				US-PATENT-CLASS-204-192R			US-PATENT-4,500,265
N85-20126*	c 27		NAS 1.71:MFS-25862-1				US-PATENT-CLASS-423-445	N85-21427*	c 32	NAS 1.71:MSC-18578-1
			NASA-CASE-MFS-25862-1				US-PATENT-CLASS-423-446			NASA-CASE-MSC-18578-1
			US-PATENT-APPL-SN-465366				US-PATENT-CLASS-423-449			US-PATENT-APPL-SN-367132
			US-PATENT-CLASS-73-579				US-PATENT-CLASS-427-39			US-PATENT-CLASS-358-161
			US-PATENT-CLASS-73-582				US-PATENT-4,437,962			US-PATENT-CLASS-358-174
			US-PATENT-CLASS-73-588				US-PATENT-4,495,044			US-PATENT-CLASS-358-217
			US-PATENT-4,479,386	N85-21279*	c 25		NAS 1.71:GSC-12808-1			US-PATENT-CLASS-358-219
N85-20153*	c 31		NAS 1.71:LEW-14080-1				NASA-CASE-GSC-12808-1			US-PATENT-4,495,520
			NASA-CASE-LEW-14080-1				US-PATENT-APPL-SN-462497	N85-21428*	c 32	NAS 1.71:NPO-15433-1
			US-PATENT-APPL-SN-628866				US-PATENT-CLASS-376-159			NASA-CASE-NPO-15433-1
			US-PATENT-CLASS-204-192C				US-PATENT-4,483,817			US-PATENT-APPL-SN-250585
			US-PATENT-CLASS-204-192R	N85-21280*	c 25		NAS 1.71:MFS-25721-1			US-PATENT-CLASS-364-200
			US-PATENT-CLASS-204-192SP				NASA-CASE-MFS-25721-1			US-PATENT-4,493,021
			US-PATENT-CLASS-423-DIG.10				US-PATENT-APPL-SN-492964	N85-21491*	c 33	NAS 1.71:NPO-15560-1
			US-PATENT-CLASS-423-414				US-PATENT-CLASS-556-410			NASA-CASE-NPO-15560-1
			US-PATENT-CLASS-423-445				US-PATENT-4,474,975			US-PATENT-APPL-SN-275909
			US-PATENT-CLASS-423-446				NAS 1.71:ARC-11368-2			US-PATENT-CLASS-250-426
			US-PATENT-CLASS-423-449	N85-21347*	c 27		NASA-CASE-ARC-11368-2			US-PATENT-CLASS-313-131A
			US-PATENT-4,490,229				US-PATENT-APPL-SN-175452			US-PATENT-CLASS-315-111.31
N85-20294*	c 35		NAS 1.71:GSC-12789-1				US-PATENT-APPL-SN-288267			US-PATENT-CLASS-315-111.81
			NASA-CASE-GSC-12789-1				US-PATENT-APPL-SN-502820			US-PATENT-4,475,063
			US-PATENT-APPL-SN-409680				US-PATENT-CLASS-526-262	N85-21492*	c 33	NAS 1.71:LEW-13833-1
			US-PATENT-CLASS-177-147				US-PATENT-CLASS-526-274			NASA-CASE-LEW-13833-1
			US-PATENT-CLASS-177-260				US-PATENT-CLASS-528-167			US-PATENT-APPL-SN-486471
			US-PATENT-CLASS-73-862.54				US-PATENT-CLASS-528-168			US-PATENT-CLASS-136-255
			US-PATENT-4,479,560				US-PATENT-CLASS-528-170			US-PATENT-CLASS-357-12
N85-20295*	c 35		NAS 1.71:LAR-13065-1				US-PATENT-CLASS-528-321			US-PATENT-CLASS-357-30
			NASA-CASE-LAR-13065-1				US-PATENT-CLASS-528-322			US-PATENT-4,482,779
			US-PATENT-APPL-SN-484745				US-PATENT-4,276,344	N85-21493*	c 33	NAS 1.71:NPO-15920-1
			US-PATENT-CLASS-73-187				US-PATENT-4,395,557			NASA-CASE-NPO-15920-1
			US-PATENT-4,485,671				US-PATENT-4,496,701			US-PATENT-APPL-SN-403848
N85-20300* #	c 35		NAS 1.71:MFS-28008-1	N85-21348*	c 27		NASA-CASE-ARC-11413-1			US-PATENT-CLASS-343-17.7
			NASA-CASE-MFS-28008-1				US-PATENT-APPL-SN-440656			US-PATENT-CLASS-343-376
			US-PATENT-APPL-SN-684194				US-PATENT-CLASS-528-125	N85-21568*	c 34	NAS 1.71:LAR-12588-1
N85-20337*	c 37		NAS 1.71:GSC-12582-2				US-PATENT-CLASS-528-126			NASA-CASE-LAR-12588-1
			NASA-CASE-GSC-12582-2				US-PATENT-CLASS-528-128			US-PATENT-APPL-SN-234222
			US-PATENT-APPL-SN-220213				US-PATENT-CLASS-528-166			US-PATENT-CLASS-165-104.26
			US-PATENT-APPL-SN-415960				US-PATENT-CLASS-528-185			US-PATENT-CLASS-73-179
			US-PATENT-CLASS-104-281				US-PATENT-CLASS-528-186			US-PATENT-CLASS-73-708
			US-PATENT-CLASS-104-284				US-PATENT-CLASS-528-187			US-PATENT-4,485,670
			US-PATENT-CLASS-308-10				US-PATENT-CLASS-528-226	N85-21595*	c 35	NAS 1.71:MSC-20275-1
			US-PATENT-4,473,259				US-PATENT-CLASS-528-229			NASA-CASE-MSC-20275-1
N85-20338*	c 37		NAS 1.71:MSC-20112-1				US-PATENT-CLASS-528-352			US-PATENT-APPL-SN-425205
			NASA-CASE-MSC-20112-1				US-PATENT-CLASS-528-353			US-PATENT-CLASS-222-309
			US-PATENT-APPL-SN-392104				US-PATENT-4,499,260			

				US-PATENT-CLASS-222-340				US-PATENT-CLASS-343-5W				US-PATENT-CLASS-358-109
				US-PATENT-CLASS-222-43				US-PATENT-4,463,357				US-PATENT-CLASS-358-133
				US-PATENT-CLASS-222-48				NAS 1.71:NPO-15295-1				US-PATENT-4,513,317
				US-PATENT-4,488,663		N85-21992*	c 60	NASA-CASE-NPO-15295-1		N85-29118*	c 32	NASA-CASE-NPO-15743-1
N85-21596*	c 35			NAS 1.71:NPO-15759-1				US-PATENT-APPL-SN-291645				US-PATENT-APPL-SN-448881
				NASA-CASE-NPO-15759-1				US-PATENT-CLASS-364-200				US-PATENT-CLASS-343-876
				US-PATENT-APPL-SN-367136				US-PATENT-4,481,570				US-PATENT-CLASS-455-73
				US-PATENT-CLASS-324-427		N85-22104*	c 71	NAS 1.71:NPO-15466-1		N85-29142*	c 33	US-PATENT-4,503,436
				US-PATENT-CLASS-429-58				NASA-CASE-NPO-15466-1				NASA-CASE-NPO-15553-1
				US-PATENT-4,499,424				US-PATENT-APPL-SN-361217				US-PATENT-APPL-SN-437912
N85-21597*	c 35			NAS 1.71:NPO-16027-1				US-PATENT-CLASS-23-313R				US-PATENT-CLASS-156-DIG.62
				NASA-CASE-NPO-16027-1				US-PATENT-CLASS-55-15				US-PATENT-CLASS-364-400
				US-PATENT-APPL-SN-500044				US-PATENT-CLASS-55-277				US-PATENT-CLASS-364-453
				US-PATENT-CLASS-73-40.5A				US-PATENT-4,475,921				US-PATENT-CLASS-74-5.6D
				US-PATENT-CLASS-73-753		N85-22105*	c 71	NAS 1.71:NPO-16022-1				US-PATENT-4,521,854
				US-PATENT-4,498,333				NASA-CASE-NPO-16022-1		N85-29143*	c 33	NASA-CASE-NPO-15890-1-CU
N85-21598*	c 35			NAS 1.71:WLP-10055-2				US-PATENT-APPL-SN-526750				US-PATENT-APPL-SN-556513
				NASA-CASE-WLP-10055-2				US-PATENT-CLASS-73-505				US-PATENT-CLASS-331-3
				US-PATENT-APPL-SN-352827				US-PATENT-4,463,606				US-PATENT-CLASS-331-31
				US-PATENT-APPL-SN-526770		N85-22139*	c 74	NAS 1.71:NPO-15155-1				US-PATENT-CLASS-331-36C
				US-PATENT-CLASS-29-610SG				NASA-CASE-NPO-15155-1				US-PATENT-CLASS-331-94.1
				US-PATENT-4,425,808				US-PATENT-APPL-SN-242797				US-PATENT-CLASS-331-96
				US-PATENT-4,498,231				US-PATENT-CLASS-250-221				US-PATENT-CLASS-333-231
N85-21631*	c 36			NAS 1.71:NPO-15790-1				US-PATENT-CLASS-340-555				US-PATENT-4,517,530
				NASA-CASE-NPO-15790-1				US-PATENT-4,479,053		N85-29144*	c 33	NASA-CASE-LEW-13102-1
				US-PATENT-APPL-SN-423016		N85-22877*	c 33	NAS 1.71:MFS-25861-1				US-PATENT-APPL-SN-282298
				US-PATENT-CLASS-250-339				NASA-CASE-MFS-25861-1				US-PATENT-CLASS-429-206
				US-PATENT-CLASS-250-343				US-PATENT-APPL-SN-504345				US-PATENT-CLASS-429-249
				US-PATENT-4,489,239				US-PATENT-CLASS-318-729				US-PATENT-4,505,998
N85-21639*	c 36			NAS 1.71:GSC-12558-1				US-PATENT-CLASS-318-812		N85-29145*	c 33	NASA-CASE-GSC-12788-1
				NASA-CASE-GSC-12558-1				US-PATENT-4,489,264				US-PATENT-APPL-SN-434085
				US-PATENT-APPL-SN-383086		N85-23396*	c 74	NAS 1.71:NPO-15801-1				US-PATENT-CLASS-307-271
				US-PATENT-CLASS-356-43				NASA-CASE-NPO-15801-1				US-PATENT-CLASS-307-520
				US-PATENT-CLASS-356-45				US-PATENT-APPL-SN-478130				US-PATENT-CLASS-307-521
				US-PATENT-CLASS-374-137				US-PATENT-CLASS-350-168				US-PATENT-CLASS-307-529
				US-PATENT-CLASS-73-705				US-PATENT-CLASS-350-505				US-PATENT-CLASS-328-167
				US-PATENT-4,493,553				US-PATENT-CLASS-350-619				US-PATENT-CLASS-330-302
N85-21649*	c 37			NAS 1.71:MSC-20319-1				US-PATENT-CLASS-356-323				US-PATENT-CLASS-330-306
				NASA-CASE-MSC-20319-1				US-PATENT-CLASS-356-330				US-PATENT-4,521,702
				US-PATENT-APPL-SN-393582				US-PATENT-CLASS-356-331		N85-29146*	c 33	NASA-CASE-GSC-12817-1
				US-PATENT-CLASS-292-252				US-PATENT-4,497,540				US-PATENT-APPL-SN-506477
				US-PATENT-CLASS-403-317		N85-25436* #	c 24	NAS 1.15:76884				US-PATENT-CLASS-336-198
				US-PATENT-CLASS-81-177G				NASA-TM-76884				US-PATENT-CLASS-336-84C
				US-PATENT-4,483,639		N85-28973*	c 23	NASA-CASE-LAR-13262-1				US-PATENT-4,510,476
N85-21650*	c 37			NAS 1.71:NPO-15483-1				US-PATENT-APPL-SN-608741		N85-29147*	c 33	NASA-CASE-GSC-12818-1
				NASA-CASE-NPO-15483-1				US-PATENT-CLASS-525-532				US-PATENT-APPL-SN-511362
				US-PATENT-APPL-SN-387648				US-PATENT-CLASS-525-534				US-PATENT-CLASS-307-82
				US-PATENT-CLASS-125-13R				US-PATENT-CLASS-528-86				US-PATENT-CLASS-363-100
				US-PATENT-CLASS-125-15				US-PATENT-4,510,296				US-PATENT-CLASS-363-19
				US-PATENT-CLASS-51-73R		N85-28982*	c 25	NASA-CASE-LEW-13770-2				US-PATENT-CLASS-363-23
				US-PATENT-CLASS-82-90				US-PATENT-APPL-SN-404809				US-PATENT-CLASS-363-61
				US-PATENT-CLASS-83-664				US-PATENT-APPL-SN-516217				US-PATENT-CLASS-363-71
				US-PATENT-CLASS-83-676				US-PATENT-CLASS-526-262				US-PATENT-CLASS-378-104
				US-PATENT-4,475,527				US-PATENT-CLASS-528-322				US-PATENT-CLASS-378-112
N85-21651*	c 37			NAS 1.71:LAR-12868-1				US-PATENT-CLASS-528-342				US-PATENT-4,517,472
				NASA-CASE-LAR-12868-1				US-PATENT-4,455,418		N85-29179*	c 34	NASA-CASE-LEW-12950-2
				US-PATENT-APPL-SN-322321				US-PATENT-4,514,557				US-PATENT-APPL-SN-202228
				US-PATENT-CLASS-374-208		N85-29005*	c 26	NASA-CASE-NPO-15928-1				US-PATENT-APPL-SN-507626
				US-PATENT-CLASS-374-210				US-PATENT-APPL-SN-537616				US-PATENT-CLASS-165-104.14
				US-PATENT-4,491,427				US-PATENT-CLASS-204-192N				US-PATENT-CLASS-165-32
N85-21652*	c 37			NAS 1.71:NPO-15851-1				US-PATENT-CLASS-427-38				US-PATENT-CLASS-310-306
				NASA-CASE-NPO-15851-1				US-PATENT-CLASS-427-47				US-PATENT-4,506,183
				US-PATENT-APPL-SN-415879				US-PATENT-4,522,844		N85-29180*	c 34	NASA-CASE-MSC-20497-1
				US-PATENT-CLASS-134-37		N85-29043*	c 27	NASA-CASE-NPO-16103-1				US-PATENT-APPL-SN-615505
				US-PATENT-CLASS-15-406				US-PATENT-APPL-SN-617871				US-PATENT-CLASS-122-366
				US-PATENT-CLASS-422-129				US-PATENT-CLASS-525-26				US-PATENT-CLASS-165-1
				US-PATENT-CLASS-422-199				US-PATENT-CLASS-525-47				US-PATENT-CLASS-165-104.26
				US-PATENT-4,500,492				US-PATENT-CLASS-526-328				US-PATENT-4,515,207
N85-21723*	c 43			NAS 1.71:NPO-15651-1				US-PATENT-CLASS-526-329.2		N85-29182* #	c 34	NAS 1.71:NPO-16494-1-CU
				NASA-CASE-NPO-15651-1				US-PATENT-CLASS-528-288				NASA-CASE-NPO-16494-1-CU
				US-PATENT-APPL-SN-375620				US-PATENT-CLASS-528-289				US-PATENT-APPL-SN-739789
				US-PATENT-CLASS-343-352				US-PATENT-CLASS-528-303		N85-29212*	c 35	NASA-CASE-NPO-15722-1
				US-PATENT-CLASS-374-122				US-PATENT-CLASS-528-304				US-PATENT-APPL-SN-457992
				US-PATENT-4,499,470				US-PATENT-4,523,008				US-PATENT-CLASS-204-1T
N85-21768*	c 44			NAS 1.71:LEW-13827-1		N85-29044*	c 27	NASA-CASE-GSC-12883-1				US-PATENT-CLASS-204-430
				NASA-CASE-LEW-13827-1				US-PATENT-APPL-SN-604337				US-PATENT-CLASS-73-336.5
				US-PATENT-APPL-SN-486470				US-PATENT-CLASS-523-135				US-PATENT-4,514,178
				US-PATENT-CLASS-136-225				US-PATENT-CLASS-524-388		N85-29213*	c 35	NASA-CASE-MSC-18866-1
				US-PATENT-CLASS-136-246				US-PATENT-CLASS-524-567				US-PATENT-APPL-SN-350471
				US-PATENT-CLASS-357-30				US-PATENT-4,518,722				US-PATENT-CLASS-422-103
				US-PATENT-4,482,778		N85-29082*	c 31	NASA-CASE-NPO-16257-1				US-PATENT-CLASS-422-86
N85-21769*	c 44			NAS 1.71:MFS-25637-1				US-PATENT-APPL-SN-588164				US-PATENT-CLASS-422-88
				NASA-CASE-MFS-25637-1				US-PATENT-CLASS-62-3				US-PATENT-CLASS-436-2
				US-PATENT-APPL-SN-375684				US-PATENT-4,507,928				US-PATENT-CLASS-73-40.7
				US-PATENT-CLASS-290-1R		N85-29083*	c 31	NASA-CASE-LAR-13181-1				US-PATENT-CLASS-73-863.86
				US-PATENT-CLASS-290-4R				US-PATENT-APPL-SN-507623				US-PATENT-CLASS-73-864.52
				US-PATENT-CLASS-307-64				US-PATENT-CLASS-156-272.4				US-PATENT-4,515,751
				US-PATENT-CLASS-307-66				US-PATENT-CLASS-156-273.9		N85-29214*	c 35	NASA-CASE-MSC-25707-1
				US-PATENT-CLASS-318-46				US-PATENT-CLASS-156-380.2				US-PATENT-APPL-SN-359627
				US-PATENT-CLASS-318-729				US-PATENT-CLASS-219-10.43				US-PATENT-CLASS-126-263
				US-PATENT-4,489,243				US-PATENT-CLASS-219-10.49				US-PATENT-CLASS-165-48R
N85-21846*	c 46			NAS 1.71:NPO-15430-1				US-PATENT-CLASS-219-10.53				US-PATENT-CLASS-165-61
				NASA-CASE-NPO-15430-1				US-PATENT-CLASS-219-10.77				US-PATENT-CLASS-165-64
				US-PATENT-APPL-SN-322317				US-PATENT-4,521,659				US-PATENT-CLASS-244-163
				US-PATENT-CLASS-343-352		N85-29117*	c 32	NASA-CASE-NPO-15432-1				US-PATENT-4,513,810
				US-PATENT-CLASS-343-460				US-PATENT-APPL-SN-425204		N85-29264*	c 36	NASA-CASE-NPO-16000-1

		US-PATENT-APPL-SN-384547			US-PATENT-APPL-SN-516217			US-PATENT-CLASS-148-33.2
		US-PATENT-CLASS-250-339			US-PATENT-APPL-SN-561434			US-PATENT-CLASS-156-DIG.65
		US-PATENT-CLASS-364-556			US-PATENT-CLASS-526-204			US-PATENT-CLASS-156-DIG.88
		US-PATENT-4,509,130			US-PATENT-CLASS-526-217			US-PATENT-CLASS-156-612
N85-29282*	c 37	NASA-CASE-NPO-15037-2			US-PATENT-CLASS-526-262			US-PATENT-CLASS-29-576E
		US-PATENT-APPL-SN-161257			US-PATENT-CLASS-528-314			US-PATENT-CLASS-29-576J
		US-PATENT-APPL-SN-431420			US-PATENT-CLASS-528-322			US-PATENT-CLASS-29-576W
		US-PATENT-CLASS-415-1			US-PATENT-4,495,339			US-PATENT-CLASS-29-578
		US-PATENT-CLASS-415-68	N85-30187*	c 33	NASA-CASE-NPO-16021-1			US-PATENT-CLASS-357-4
		US-PATENT-4,514,137			US-PATENT-APPL-SN-402205			US-PATENT-CLASS-357-50
N85-29283*	c 37	NASA-CASE-MSC-18852-1			US-PATENT-CLASS-324-158R			US-PATENT-4,522,661
		US-PATENT-APPL-SN-392094			US-PATENT-CLASS-324-65R	N85-30923*	c 76	NASA-CASE-LAR-12893-1
		US-PATENT-CLASS-239-DIG.23			US-PATENT-4,516,071			US-PATENT-APPL-SN-364041
		US-PATENT-CLASS-239-288	N85-30281*	c 35	NASA-CASE-GSC-12851-1			US-PATENT-CLASS-204-1T
		US-PATENT-CLASS-239-322			US-PATENT-APPL-SN-459842			US-PATENT-CLASS-324-158D
		US-PATENT-CLASS-239-327			US-PATENT-CLASS-250-363S			US-PATENT-CLASS-324-71.5
		US-PATENT-CLASS-239-375			US-PATENT-CLASS-250-369			US-PATENT-4,511,838
		US-PATENT-CLASS-239-590			US-PATENT-4,521,688	N85-30934* #	c 76	NAS 1.71-NPO-16306-1-CU
		US-PATENT-CLASS-55-DIG.42	N85-30282*	c 35	NASA-CASE-LAR-12966-1			NASA-CASE-NPO-16306-1-CU
		US-PATENT-4,519,545			US-PATENT-APPL-SN-414237			US-PATENT-APPL-SN-719798
N85-29284*	c 37	NASA-CASE-MSC-20148-1			US-PATENT-CLASS-356-351	N85-33187*	c 23	NASA-CASE-ARC-11243-2
		US-PATENT-APPL-SN-636465			US-PATENT-CLASS-356-358			US-PATENT-APPL-SN-183707
		US-PATENT-CLASS-251-325			US-PATENT-CLASS-73-657			US-PATENT-CLASS-549-335
		US-PATENT-CLASS-251-349			US-PATENT-4,512,661			US-PATENT-4,528,386
		US-PATENT-CLASS-251-353	N85-30305*	c 36	NASA-CASE-NPO-15980-1	N85-33433*	c 34	NASA-CASE-LEW-14039-1
		US-PATENT-CLASS-277-135			US-PATENT-APPL-SN-385220			US-PATENT-APPL-SN-580419
		US-PATENT-CLASS-277-80			US-PATENT-CLASS-357-17			US-PATENT-CLASS-415-115
		US-PATENT-4,523,741			US-PATENT-CLASS-357-40			US-PATENT-CLASS-416-97A
N85-29285*	c 37	NASA-CASE-LAR-13009-1			US-PATENT-CLASS-357-46			US-PATENT-4,529,358
		US-PATENT-APPL-SN-495380			US-PATENT-CLASS-372-38	N85-33489*	c 37	NASA-CASE-LEW-13914-1
		US-PATENT-CLASS-403-28			US-PATENT-CLASS-372-46			US-PATENT-APPL-SN-537615
		US-PATENT-CLASS-403-408			US-PATENT-CLASS-372-50			US-PATENT-CLASS-315-3.5
		US-PATENT-CLASS-411-368			US-PATENT-4,513,423			US-PATENT-CLASS-315-5.38
		US-PATENT-CLASS-411-378	N85-30333*	c 37	NASA-CASE-LEW-13717-1			US-PATENT-CLASS-445-35
		US-PATENT-CLASS-411-426			US-PATENT-APPL-SN-463456			US-PATENT-4,527,092
		US-PATENT-CLASS-411-501			US-PATENT-CLASS-310-77	N85-33490*	c 37	NASA-CASE-LEW-13506-1
		US-PATENT-CLASS-411-531			US-PATENT-CLASS-310-93			US-PATENT-APPL-SN-59660
		US-PATENT-4,512,699			US-PATENT-CLASS-318-611			US-PATENT-CLASS-384-101
N85-29286*	c 37	NASA-CASE-LAR-13040-1			US-PATENT-CLASS-335-100			US-PATENT-CLASS-384-99
		US-PATENT-APPL-SN-547176			US-PATENT-4,517,505			US-PATENT-4,527,910
		US-PATENT-CLASS-219-201	N85-30334*	c 37	NASA-CASE-MSC-20080-1	N85-33701*	c 60	NASA-CASE-MFS-25319-1
		US-PATENT-CLASS-219-221			US-PATENT-APPL-SN-393584			US-PATENT-APPL-SN-437917
		US-PATENT-CLASS-219-285			US-PATENT-CLASS-403-15			US-PATENT-CLASS-364-723
		US-PATENT-CLASS-414-217			US-PATENT-CLASS-403-16			US-PATENT-CLASS-364-853
		US-PATENT-CLASS-73-863.11			US-PATENT-CLASS-403-322			US-PATENT-4,528,639
		US-PATENT-CLASS-73-864.81			US-PATENT-CLASS-89-1.57	N85-33826*	c 76	NASA-CASE-MSC-20036-1
		US-PATENT-4,516,435			US-PATENT-4,512,678			US-PATENT-APPL-SN-569932
N85-29693*	c 71	NASA-CASE-NPO-16147-1-CU	N85-30335*	c 37	NASA-CASE-LAR-12738-2			US-PATENT-CLASS-204-192C
		US-PATENT-APPL-SN-559988			US-PATENT-APPL-SN-539230			US-PATENT-CLASS-204-192P
		US-PATENT-CLASS-73-505			US-PATENT-CLASS-244-158-A			US-PATENT-CLASS-350-342
		US-PATENT-4,520,656			US-PATENT-CLASS-411-103			US-PATENT-CLASS-428-432
N85-29749*	c 74	NASA-CASE-NPO-15464-1			US-PATENT-CLASS-411-108			US-PATENT-CLASS-428-698
		US-PATENT-APPL-SN-342828			US-PATENT-CLASS-52-127.7			US-PATENT-CLASS-428-913
		US-PATENT-CLASS-156-166			US-PATENT-CLASS-52-506			US-PATENT-4,522,469
		US-PATENT-CLASS-350-320			US-PATENT-CLASS-52-745	N85-34280*	c 27	NASA-CASE-ARC-11522-2
		US-PATENT-CLASS-350-96.15			US-PATENT-4,520,601			US-PATENT-APPL-SN-641143
		US-PATENT-4,523,810	N85-30336*	c 37	NASA-CASE-LAR-12864-1			US-PATENT-CLASS-528-168
N85-29750*	c 74	NASA-CASE-MSC-18417-1			US-PATENT-APPL-SN-387646			US-PATENT-CLASS-528-229
		US-PATENT-APPL-SN-523559			US-PATENT-CLASS-403-102			US-PATENT-CLASS-528-352
		US-PATENT-CLASS-350-312			US-PATENT-CLASS-403-322			US-PATENT-CLASS-528-353
		US-PATENT-CLASS-350-319			US-PATENT-CLASS-403-348			US-PATENT-4,536,565
		US-PATENT-CLASS-350-321			US-PATENT-4,518,277	N85-34281*	c 27	NASA-CASE-ARC-11424-1
		US-PATENT-CLASS-52-171			NASA-CASE-NPO-15419-2			US-PATENT-APPL-SN-598777
		US-PATENT-4,521,077	N85-30474*	c 44	US-PATENT-APPL-SN-259208			US-PATENT-CLASS-428-260
N85-29800*	c 76	NASA-CASE-NPO-15772-1			US-PATENT-APPL-SN-542557			US-PATENT-CLASS-428-408
		US-PATENT-APPL-SN-392944			US-PATENT-CLASS-126-DIG.1			US-PATENT-CLASS-428-413
		US-PATENT-CLASS-156-623Q			US-PATENT-CLASS-126-400			US-PATENT-CLASS-525-107
		US-PATENT-CLASS-23-295R			US-PATENT-CLASS-126-415			US-PATENT-CLASS-525-113
		US-PATENT-4,512,846			US-PATENT-CLASS-126-419			US-PATENT-CLASS-525-119
N85-29947*	c 05	NASA-CASE-ARC-11444-1			US-PATENT-CLASS-126-900			US-PATENT-CLASS-525-186
		US-PATENT-APPL-SN-489675			US-PATENT-4,512,332			US-PATENT-CLASS-525-229
		US-PATENT-CLASS-416-145	N85-30475*	c 44	NASA-CASE-NPO-16155-1			US-PATENT-CLASS-528-113
		US-PATENT-CLASS-416-23			US-PATENT-APPL-SN-578390			US-PATENT-CLASS-528-117
		US-PATENT-CLASS-416-500			US-PATENT-CLASS-136-255			US-PATENT-CLASS-528-407
		US-PATENT-4,514,143			US-PATENT-CLASS-136-256			US-PATENT-CLASS-528-94
N85-29991*	c 18	NASA-CASE-MFS-25837-1			US-PATENT-CLASS-136-261			US-PATENT-4,537,834
		US-PATENT-APPL-SN-401282			US-PATENT-CLASS-357-30	N85-34282*	c 27	NASA-CASE-LAR-13226-1
		US-PATENT-CLASS-244-118.1			US-PATENT-4,524,237			US-PATENT-APPL-SN-548583
		US-PATENT-CLASS-244-158R	N85-30618*	c 52	NASA-CASE-LAR-13028-1			US-PATENT-CLASS-523-454
		US-PATENT-CLASS-248-503			US-PATENT-APPL-SN-582492			US-PATENT-CLASS-523-458
		US-PATENT-CLASS-248-555			US-PATENT-CLASS-128-660			US-PATENT-CLASS-528-106
		US-PATENT-CLASS-403-143			US-PATENT-CLASS-128-736			US-PATENT-CLASS-528-229
		US-PATENT-CLASS-403-56			US-PATENT-CLASS-374-117			US-PATENT-CLASS-528-407
		US-PATENT-CLASS-403-76			US-PATENT-CLASS-374-160			US-PATENT-CLASS-528-92
		US-PATENT-CLASS-403-90			US-PATENT-4,513,750			US-PATENT-4,510,277
		US-PATENT-CLASS-410-79	N85-30765*	c 71	NASA-CASE-NPO-15559-1	N85-34327*	c 32	NASA-CASE-NPO-15704-1
		US-PATENT-CLASS-410-90			US-PATENT-APPL-SN-379601			US-PATENT-APPL-SN-359382
		US-PATENT-4,508,296			US-PATENT-CLASS-181-0.5			US-PATENT-CLASS-343-17.2-PC
N85-30027*	c 24	NASA-CASE-LEW-13828-1			US-PATENT-CLASS-209-422			US-PATENT-CLASS-343-5-CM
		US-PATENT-APPL-SN-560035			US-PATENT-CLASS-209-638			US-PATENT-CLASS-343-5-W
		US-PATENT-CLASS-219-76.14			US-PATENT-4,523,682			US-PATENT-4,509,048
		US-PATENT-CLASS-427-178	N85-30922*	c 76	NASA-CASE-NPO-15813-1	N85-34333*	c 33	NASA-CASE-NPO-15696-1
		US-PATENT-CLASS-427-37			US-PATENT-APPL-SN-507624			US-PATENT-APPL-SN-387647
		US-PATENT-CLASS-427-422			US-PATENT-CLASS-148-DIG.26			US-PATENT-CLASS-364-571
		US-PATENT-4,518,625			US-PATENT-CLASS-148-174			US-PATENT-CLASS-364-578
N85-30039*	c 25	NASA-CASE-LEW-13770-6			US-PATENT-CLASS-148-175			US-PATENT-CLASS-372-32

N85-34373*	c 35	US-PATENT-4,509,132	N86-12547*	c 34	US-PATENT-CLASS-428-704	N86-19580*	c 35	US-PATENT-CLASS-357-23.6
		NAS 1.71:NPO-15493-2			US-PATENT-4,535,035			US-PATENT-CLASS-357-30
		NAS 1.71:NPO-15494-2			NASA-CASE-LAR-13220-1			US-PATENT-CLASS-357-58
		US-PATENT-APPL-SN-563890			US-PATENT-APPL-SN-633179			US-PATENT-CLASS-357-59
N85-34374*	c 35	US-PATENT-CLASS-324-65-P	N86-19304*	c 04	US-PATENT-CLASS-73-3	N86-19581*	c 35	US-PATENT-4,531,143
		US-PATENT-CLASS-73-75			US-PATENT-CLASS-73-861.07			NASA-CASE-GSC-12795-1
		US-PATENT-4,532,797			US-PATENT-4,538,446			US-PATENT-APPL-SN-462508
		NASA-CASE-ARC-11503-1			NASA-CASE-KSC-11155-1			US-PATENT-CLASS-374-115
N85-34375*	c 35	US-PATENT-APPL-SN-582643	N86-19310*	c 05	US-PATENT-APPL-SN-425201	N86-19603*	c 37	US-PATENT-CLASS-374-120
		US-PATENT-CLASS-250-374			US-PATENT-CLASS-343-6.8-R			US-PATENT-CLASS-374-163
		US-PATENT-CLASS-250-379			US-PATENT-4,540,986			US-PATENT-4,556,327
		US-PATENT-4,538,066			NASA-CASE-LAR-13155-1			NASA-CASE-MSC-20250-1
N85-34401*	c 37	NASA-CASE-LAR-13243-1	N86-19376*	c 23	US-PATENT-APPL-SN-469371	N86-19604*	c 37	US-PATENT-APPL-SN-491113
		US-PATENT-APPL-SN-590923			US-PATENT-CLASS-244-158-A			US-PATENT-CLASS-73-862.01
		US-PATENT-CLASS-73-831			US-PATENT-CLASS-244-158-R			US-PATENT-CLASS-73-862.54
		US-PATENT-CLASS-73-856			US-PATENT-CLASS-244-172			US-PATENT-4,557,149
N85-34401*	c 37	US-PATENT-4,535,636	N86-19376*	c 23	US-PATENT-4,557,444	N86-19603*	c 37	NASA-CASE-MFS-25949-1
		NASA-CASE-MFS-25907-1			NASA-CASE-ARC-11428-1			US-PATENT-APPL-SN-538063
		US-PATENT-APPL-SN-510137			US-PATENT-APPL-SN-499126			US-PATENT-CLASS-414-730
		US-PATENT-CLASS-244-118.1			US-PATENT-CLASS-260-927-N			US-PATENT-CLASS-901-31
N85-34403*	c 37	US-PATENT-CLASS-244-158R	N86-19380*	c 24	US-PATENT-CLASS-428-410	N86-19604*	c 37	US-PATENT-CLASS-901-50
		US-PATENT-CLASS-248-550			US-PATENT-CLASS-528-310			US-PATENT-4,545,723
		US-PATENT-CLASS-267-150			US-PATENT-CLASS-548-413			NASA-CASE-NPO-15960-1
		US-PATENT-CLASS-267-8R			US-PATENT-CLASS-564-113			US-PATENT-APPL-SN-527613
N85-34403*	c 37	US-PATENT-CLASS-410-156	N86-19380*	c 24	US-PATENT-4,550,177	N86-19605*	c 37	US-PATENT-CLASS-337-140
		US-PATENT-4,536,114			NASA-CASE-ARC-11427-1			US-PATENT-CLASS-60-527
		NASA-CASE-MSC-20127-2			US-PATENT-APPL-SN-493865			US-PATENT-CLASS-60-528
		US-PATENT-APPL-SN-646044			US-PATENT-CLASS-523-433			US-PATENT-4,553,393
N85-34441*	c 44	US-PATENT-CLASS-137-116.3	N86-19413*	c 25	US-PATENT-CLASS-523-445	N86-19605*	c 37	NASA-CASE-NPO-16038-1
		US-PATENT-CLASS-137-99			US-PATENT-CLASS-523-66468			US-PATENT-APPL-SN-469864
		US-PATENT-4,509,548			US-PATENT-CLASS-525-423			US-PATENT-CLASS-16-294
		NASA-CASE-LEW-14077-1			US-PATENT-CLASS-525-527			US-PATENT-CLASS-403-113
N85-34629*	c 74	US-PATENT-APPL-SN-580573	N86-19413*	c 25	US-PATENT-CLASS-528-102	N86-19606*	c 37	US-PATENT-CLASS-403-120
		US-PATENT-CLASS-136-253			US-PATENT-CLASS-528-103			US-PATENT-4,558,967
		US-PATENT-4,528,417			US-PATENT-4,550,129			NASA-CASE-LEW-13670-1
		NASA-CASE-NPO-15865-1			NASA-CASE-MSC-20622-1			US-PATENT-APPL-SN-603374
N85-34722*	c 85	US-PATENT-APPL-SN-425202	N86-19455*	c 27	US-PATENT-APPL-SN-571616	N86-19711*	c 43	US-PATENT-CLASS-384-103
		US-PATENT-CLASS-343-13-R			US-PATENT-CLASS-374-46			US-PATENT-CLASS-384-106
		US-PATENT-CLASS-356-5			US-PATENT-CLASS-374-8			US-PATENT-4,552,466
		US-PATENT-4,533,242			US-PATENT-CLASS-422-78			NASA-CASE-NPO-15939-1
N85-35194*	c 07	NASA-CASE-NPO-15949-1	N86-19455*	c 27	US-PATENT-CLASS-436-155	N86-19721*	c 44	US-PATENT-APPL-SN-465365
		US-PATENT-APPL-SN-457990			US-PATENT-CLASS-73-7			US-PATENT-CLASS-343-5-CD
		US-PATENT-CLASS-414-288			US-PATENT-CLASS-73-784			US-PATENT-CLASS-343-5-CM
		US-PATENT-CLASS-414-328			US-PATENT-4,561,784			US-PATENT-CLASS-343-5-VQ
N85-35194*	c 07	US-PATENT-CLASS-414-373	N86-19456*	c 27	US-PATENT-CLASS-528-102	N86-19885* #	c 52	US-PATENT-CLASS-367-88
		US-PATENT-CLASS-414-786			US-PATENT-CLASS-528-103			US-PATENT-4,551,724
		US-PATENT-4,537,554			US-PATENT-CLASS-260-245.9			NASA-CASE-LEW-14028-1
		NASA-CASE-LAR-13019-1			US-PATENT-CLASS-528-327			US-PATENT-APPL-SN-642310
N85-35195*	c 07	US-PATENT-APPL-SN-576308	N86-19456*	c 27	US-PATENT-4,522,755	N86-20124*	c 74	US-PATENT-CLASS-429-109
		US-PATENT-CLASS-244-199			NASA-CASE-LAR-13135-1			US-PATENT-CLASS-429-15
		US-PATENT-CLASS-244-55			US-PATENT-APPL-SN-649328			US-PATENT-CLASS-429-19
		US-PATENT-4,533,101			US-PATENT-CLASS-525-432			US-PATENT-CLASS-429-51
N85-35195*	c 07	NASA-CASE-LEW-13562-2	N86-19457*	c 27	US-PATENT-CLASS-525-436	N86-20125*	c 74	US-PATENT-4,543,302
		US-PATENT-APPL-SN-500651			US-PATENT-CLASS-528-179			NASA-CASE-GSC-12944-1
		US-PATENT-CLASS-239-402.5			US-PATENT-CLASS-528-182			US-PATENT-APPL-SN-793006
		US-PATENT-CLASS-60-39.23			US-PATENT-CLASS-528-185			NASA-CASE-MFS-25942-1
N85-35200*	c 08	US-PATENT-CLASS-60-748	N86-19457*	c 27	US-PATENT-CLASS-528-352	N86-20126*	c 74	US-PATENT-APPL-SN-571613
		US-PATENT-4,534,166			US-PATENT-CLASS-528-353			US-PATENT-CLASS-378-43
		NASA-CASE-LAR-13076-1			US-PATENT-4,552,931			US-PATENT-CLASS-378-85
		US-PATENT-APPL-SN-532342			NASA-CASE-LEW-13864-1			US-PATENT-4,562,583
N85-35227*	c 23	US-PATENT-CLASS-244-113	N86-19458*	c 27	US-PATENT-APPL-SN-434087	N86-20125*	c 74	NASA-CASE-ARC-11502-1
		US-PATENT-CLASS-244-139			US-PATENT-CLASS-528-229			US-PATENT-APPL-SN-594134
		US-PATENT-CLASS-244-139			US-PATENT-CLASS-528-322			US-PATENT-CLASS-350-276-R
		US-PATENT-CLASS-244-75-R			US-PATENT-CLASS-528-342			US-PATENT-CLASS-350-319
N85-35227*	c 23	US-PATENT-4,538,778	N86-19458*	c 27	US-PATENT-CLASS-528-345	N86-20150*	c 76	US-PATENT-CLASS-350-448
		NASA-CASE-NPO-16203-1			US-PATENT-4,560,742			US-PATENT-CLASS-350-537
		US-PATENT-APPL-SN-493179			NASA-CASE-LEW-14072-1			US-PATENT-CLASS-350-580
		US-PATENT-CLASS-435-160			US-PATENT-APPL-SN-649330			US-PATENT-4,542,963
N85-35233*	c 24	US-PATENT-CLASS-435-842	N86-19479*	c 31	US-PATENT-CLASS-204-192-C	N86-20126*	c 74	NASA-CASE-MSC-20418-1
		US-PATENT-4,539,293			US-PATENT-CLASS-204-192-D			US-PATENT-APPL-SN-438446
		NASA-CASE-LEW-14057-1			US-PATENT-CLASS-204-192-R			US-PATENT-CLASS-378-58
		US-PATENT-APPL-SN-375784			US-PATENT-CLASS-204/298			US-PATENT-CLASS-378-59
N85-35233*	c 24	US-PATENT-APPL-SN-523297	N86-19479*	c 31	US-PATENT-CLASS-427-248.1	N86-20150*	c 76	US-PATENT-4,542,520
		US-PATENT-APPL-SN-640712			US-PATENT-CLASS-427-38			NASA-CASE-GSC-12816-1
		US-PATENT-CLASS-428-633			US-PATENT-CLASS-428-446			US-PATENT-APPL-SN-507625
		US-PATENT-CLASS-428-656			US-PATENT-CLASS-428-473.5			US-PATENT-CLASS-136-255
N85-35253*	c 25	US-PATENT-CLASS-428-678	N86-19479*	c 31	US-PATENT-CLASS-428-702	N86-20150*	c 76	US-PATENT-CLASS-136-262
		US-PATENT-CLASS-428-679			US-PATENT-4,560,577			US-PATENT-CLASS-29-572
		US-PATENT-CLASS-428-680			NASA-CASE-LAR-13098-1			US-PATENT-CLASS-357-15
		US-PATENT-CLASS-428-681			US-PATENT-APPL-SN-530339			US-PATENT-CLASS-357-30
N85-35253*	c 25	US-PATENT-CLASS-428-682	N86-19479*	c 31	US-PATENT-CLASS-16-242	N86-20389*	c 07	US-PATENT-4,543,442
		US-PATENT-4,485,151			US-PATENT-CLASS-16-390			NASA-CASE-LEW-13142-2
		US-PATENT-4,535,033			US-PATENT-CLASS-403-171			US-PATENT-APPL-SN-413101
		NASA-CASE-NPO-15924-1			US-PATENT-CLASS-403-64			US-PATENT-CLASS-60-39.02
N85-35267*	c 26	US-PATENT-APPL-SN-526768	N86-19515*	c 33	US-PATENT-CLASS-52-632	N86-20469*	c 18	US-PATENT-CLASS-60-39.07
		US-PATENT-CLASS-201-17			US-PATENT-CLASS-52-637			US-PATENT-CLASS-60-736
		US-PATENT-CLASS-44-1-SR			US-PATENT-CLASS-52-646			US-PATENT-4,550,561
		US-PATENT-4,511,362			US-PATENT-CLASS-52-648			NASA-CASE-MFS-25429-1
N85-35267*	c 26	NASA-CASE-LEW-13923-1	N86-19516*	c 33	US-PATENT-4,557,097	N86-20560*	c 27	US-PATENT-APPL-SN-596959
		US-PATENT-APPL-SN-571617			NASA-CASE-GSC-12555-1			US-PATENT-CLASS-124-56
		US-PATENT-CLASS-427-191			US-PATENT-APPL-SN-153240			US-PATENT-CLASS-244-158-R
		US-PATENT-CLASS-427-228			US-PATENT-CLASS-331-116-FE			US-PATENT-CLASS-403-328
N85-35267*	c 26	US-PATENT-CLASS-427-294	N86-19516*	c 33	US-PATENT-4,553,110	N86-20560*	c 27	US-PATENT-4,554,905
		US-PATENT-CLASS-427-376.2			NASA-CASE-NPO-16112-1			NASA-CASE-ARC-11429-1-CU
		US-PATENT-CLASS-427-380			US-PATENT-APPL-SN-542232			US-PATENT-APPL-SN-553339
		US-PATENT-CLASS-427-397.7						

				US-PATENT-CLASS-524-548				NASA-CASE-ARC-11349-1				US-PATENT-CLASS-428-474.4
				US-PATENT-CLASS-525-186				US-PATENT-APPL-SN-746160				US-PATENT-CLASS-428-477.7
				US-PATENT-CLASS-526-262		N86-20801* #	c 37	NAS 1.71:NPO-16233-1				US-PATENT-CLASS-528-170
				US-PATENT-CLASS-526-265				NASA-CASE-NPO-16233-1				US-PATENT-CLASS-528-220
				US-PATENT-4,526,925				US-PATENT-APPL-SN-737018				US-PATENT-CLASS-528-321
N86-20561*	c 27			NASA-CASE-LAR-13384-1		N86-20841*	c 39	NASA-CASE-MFS-25910-1				US-PATENT-CLASS-528-322
				US-PATENT-APPL-SN-663840				US-PATENT-APPL-SN-548582		N86-25428*	c 25	NASA-CASE-NPO-16392-1
				US-PATENT-CLASS-156-307				US-PATENT-CLASS-73-150-A				US-PATENT-APPL-SN-633363
				US-PATENT-CLASS-156-309.9				US-PATENT-CLASS-73-827				US-PATENT-CLASS-208-11
				US-PATENT-CLASS-156-331.5				US-PATENT-4,548,083				US-PATENT-CLASS-48-197-R
				US-PATENT-CLASS-256-308.2		N86-21154*	c 60	NASA-CASE-LAR-12968-1				US-PATENT-CLASS-8-DIG.9
				US-PATENT-CLASS-427-385.5				US-PATENT-APPL-SN-523560				US-PATENT-4,582,590
				US-PATENT-CLASS-427-388.1				US-PATENT-CLASS-364-728		N86-25752*	c 35	NASA-CASE-MFS-28030-1
				US-PATENT-CLASS-428-458				US-PATENT-4,545,025				US-PATENT-APPL-SN-719799
				US-PATENT-CLASS-428-473.5		N86-21276*	c 71	NASA-CASE-LAR-13153-1				US-PATENT-CLASS-73-861.58
				US-PATENT-4,543,295				US-PATENT-APPL-SN-590921				US-PATENT-4,572,004
N86-20647*	c 32			NASA-CASE-MFS-25750-1				US-PATENT-CLASS-72-324		N86-25753*	c 35	NASA-CASE-NPO-16271-1
				US-PATENT-APPL-SN-530185				US-PATENT-CLASS-72-341				US-PATENT-APPL-SN-556514
				US-PATENT-CLASS-250-225				US-PATENT-CLASS-73-1-DV				US-PATENT-CLASS-356-311
				US-PATENT-CLASS-350-354				US-PATENT-4,558,585				US-PATENT-CLASS-356-318
				US-PATENT-CLASS-358-168		N86-21348*	c 74	NASA-CASE-MFS-25752-1				US-PATENT-4,585,344
				US-PATENT-4,546,248				US-PATENT-APPL-SN-473499		N86-25789*	c 37	NASA-CASE-LAR-13117-1
N86-20668*	c 33			NASA-CASE-GSC-12804-1				US-PATENT-CLASS-350-335				US-PATENT-APPL-SN-556512
				US-PATENT-APPL-SN-529803				US-PATENT-CLASS-356-345				US-PATENT-CLASS-244-159
				US-PATENT-CLASS-331-1-A				US-PATENT-CLASS-356-4.5				US-PATENT-CLASS-244-173
				US-PATENT-CLASS-331-2				US-PATENT-CLASS-358-105				US-PATENT-CLASS-343-881
				US-PATENT-4,550,292				US-PATENT-CLASS-358-125				US-PATENT-CLASS-343-882
N86-20669*	c 33			NASA-CASE-GSC-12899-1				US-PATENT-CLASS-358-889				US-PATENT-CLASS-52-111
				US-PATENT-APPL-SN-613140				US-PATENT-CLASS-364-822				US-PATENT-CLASS-52-645
				US-PATENT-CLASS-191-12.2-R				US-PATENT-CLASS-382-42				US-PATENT-CLASS-52-648
				US-PATENT-CLASS-242-107				US-PATENT-4,556,986				US-PATENT-4,578,920
				US-PATENT-CLASS-242-54-R		N86-21582*	c 23	NASA-CASE-ARC-11402-3		N86-25790*	c 37	NASA-CASE-LEW-14170-1
				US-PATENT-4,542,858				US-PATENT-APPL-SN-741405				US-PATENT-APPL-SN-672224
N86-20670*	c 33			NASA-CASE-MFS-25868-1				US-PATENT-CLASS-564-243				US-PATENT-CLASS-227-27
				US-PATENT-APPL-SN-638584				US-PATENT-4,567,301				US-PATENT-CLASS-227-28
				US-PATENT-CLASS-330-258		N86-21590*	c 24	NASA-CASE-ARC-11538-1SB				US-PATENT-4,580-791
				US-PATENT-CLASS-330-261				US-PATENT-APPL-SN-719796		N86-25791*	c 37	NASA-CASE-LAR-13169-1
				US-PATENT-CLASS-330-311				US-PATENT-CLASS-526-262				US-PATENT-APPL-SN-606431
				US-PATENT-4,551,687				US-PATENT-4,568,733				US-PATENT-CLASS-343-DIG.2
N86-20671*	c 33			NASA-CASE-LEW-13773-2		N86-21675*	c 27	NASA-CASE-LAR-12931-2				US-PATENT-CLASS-343-883
				US-PATENT-APPL-SN-638541				US-PATENT-APPL-SN-527914				US-PATENT-CLASS-52-110
				US-PATENT-CLASS-244-134-D				US-PATENT-CLASS-260-544-D				US-PATENT-4,587,526
				US-PATENT-CLASS-310-324				US-PATENT-CLASS-556-436		N86-25874*	c 44	NASA-CASE-LEW-13822-1
				US-PATENT-CLASS-39-25.35				US-PATENT-CLASS-585-24				US-PATENT-APPL-SN-625077
				US-PATENT-4,545,553				US-PATENT-4,565,886				US-PATENT-CLASS-42-101
N86-20672*	c 33			NASA-CASE-LEW-13922-1		N86-21718*	c 31	NASA-CASE-MFS-25905-2				US-PATENT-CLASS-429-27
				US-PATENT-APPL-SN-537614				US-PATENT-APPL-SN-601130				US-PATENT-CLASS-429-57
				US-PATENT-CLASS-307-264				US-PATENT-CLASS-65-1				US-PATENT-4,584,249
				US-PATENT-CLASS-307-270				US-PATENT-CLASS-65-11.1		N86-26190*	c 74	NASA-CASE-GSC-12849-1
				US-PATENT-CLASS-307-566				US-PATENT-CLASS-65-12				US-PATENT-APPL-SN-556481
				US-PATENT-CLASS-307-570				US-PATENT-CLASS-65-2				US-PATENT-CLASS-250-228
				US-PATENT-CLASS-307-572				US-PATENT-4,565,557				US-PATENT-CLASS-356-236
				US-PATENT-4,547,686		N86-21742*	c 33	NASA-CASE-LEW-13981-2				US-PATENT-CLASS-356-244
N86-20680* #	c 33			NAS 1.71:LEW-14127-1				US-PATENT-APPL-SN-714051				US-PATENT-CLASS-356-446
				NASA-CASE-LEW-14127-1				US-PATENT-CLASS-315-3.5				US-PATENT-CLASS-56-73
				US-PATENT-APPL-SN-748536				US-PATENT-CLASS-315-3.6				US-PATENT-4,583,860
N86-20681* #	c 33			NAS 1.71:NPO-16420-1				US-PATENT-CLASS-315-39.3		N86-26352*	c 16	NASA-CASE-MFS-25966-1
				NASA-CASE-NPO-16420-1				US-PATENT-CLASS-330-43				US-PATENT-APPL-SN-643522
				US-PATENT-APPL-SN-727838				US-PATENT-4,564,787				US-PATENT-CLASS-244-161
N86-20750*	c 35			NASA-CASE-MFS-25963-1		N86-21850*	c 37	NASA-CASE-MFS-25807-2				US-PATENT-4,582,277
				US-PATENT-APPL-SN-571614				US-PATENT-APPL-SN-685607		N86-26368*	c 20	NASA-CASE-MFS-25946-1
				US-PATENT-CLASS-165-30				US-PATENT-CLASS-219-124.34				US-PATENT-APPL-SN-561432
				US-PATENT-CLASS-165-61				US-PATENT-CLASS-318-577				US-PATENT-CLASS-244-158.R
				US-PATENT-CLASS-165-65				US-PATENT-CLASS-358-101				US-PATENT-CLASS-244-169
				US-PATENT-CLASS-219-390				US-PATENT-CLASS-901-42				US-PATENT-CLASS-60-203.1
				US-PATENT-CLASS-219-395				US-PATENT-CLASS-901-47				US-PATENT-CLASS-60-39.465
				US-PATENT-CLASS-219-396				US-PATENT-4,567,348				US-PATENT-4,585,191
				US-PATENT-CLASS-432-18		N86-22112*	c 54	NASA-CASE-LAR-12259-2		N86-26575* #	c 34	NAS 1.71:LAR-13532-1
				US-PATENT-4,544,025				US-PATENT-APPL-SN-280152				NASA-CASE-LAR-13532-1
N86-20751*	c 35			NASA-CASE-ARC-11422-1				US-PATENT-CLASS-128-80-E				US-PATENT-APPL-SN-838649
				US-PATENT-APPL-SN-523991				US-PATENT-4,566,447		N86-26595*	c 35	NASA-CASE-MSC-20653-1
				US-PATENT-CLASS-211-126		N86-22459* #	c 89	NAS 1.71:MFS-28013-1				US-PATENT-APPL-SN-659474
				US-PATENT-CLASS-211-74				NASA-CASE-MFS-28013-1				US-PATENT-CLASS-73-863.21
				US-PATENT-4,544,068				US-PATENT-APPL-SN-765979				US-PATENT-CLASS-73-863.31
N86-20752*	c 35			NASA-CASE-NPO-16142-1-CU		N86-23744* #	c 28	NAS 1.71:KSC-11304-2				US-PATENT-CLASS-73-863.72
				US-PATENT-APPL-SN-561433				NASA-CASE-KSC-11304-2				US-PATENT-CLASS-73-864.34
				US-PATENT-CLASS-73-505				US-PATENT-APPL-SN-789713				US-PATENT-4,584,887
				US-PATENT-4,549,435		N86-24224* #	c 60	NAS 1.71:NPO-16464-1CU		N86-26598* #	c 35	NAS 1.71:MFS-26002-1-CU
N86-20756* #	c 35			NAS 1.71:MSC-20783-1				NASA-CASE-NPO-16464-1CU				NASA-CASE-MFS-26002-1-CU
				NASA-CASE-MSC-20783-1				US-PATENT-APPL-SN-815099				US-PATENT-APPL-SN-765991
				US-PATENT-APPL-SN-738931		N86-24729*	c 18	NASA-CASE-MSC-20676-1		N86-27270*	c 04	NASA-CASE-NPO-16171-1CU
N86-20788*	c 37			NASA-CASE-MFS-25842-2				US-PATENT-APPL-SN-587764				US-PATENT-APPL-SN-551536
				US-PATENT-APPL-SN-692875				US-PATENT-CLASS-244-159				US-PATENT-CLASS-343-357
				US-PATENT-CLASS-277-53				US-PATENT-4,579,302				US-PATENT-CLASS-343-418
				US-PATENT-CLASS-415-174		N86-24840* #	c 27	NAS 1.71:LAR-13448-1				US-PATENT-4,578,678
				US-PATENT-4,545,586				NASA-CASE-LAR-13448-1				US-PATENT-4,585,191
N86-20789*	c 37			NASA-CASE-MFS-25906-1				US-PATENT-APPL-SN-838654		N86-27280*	c 06	NASA-CASE-LAR-12518-1
				US-PATENT-APPL-SN-537757				NAS 1.71:LAR-13292-1				US-PATENT-APPL-SN-578388
				US-PATENT-CLASS-212-230		N86-24841* #	c 27	NASA-CASE-LAR-13292-1				US-PATENT-CLASS-244-181
				US-PATENT-CLASS-414-4				US-PATENT-APPL-SN-834978				US-PATENT-CLASS-340-968
				US-PATENT-CLASS-414-718				NAS 1.71:NPO-16584-1-CU				US-PATENT-CLASS-364-433
				US-PATENT-CLASS-414-753		N86-25269* #	c 76	NASA-CASE-NPO-16584-1-CU				US-PATENT-CLASS-364-435
				US-PATENT-CLASS-901-25				US-PATENT-APPL-SN-802769				US-PATENT-CLASS-73-178T
				US-PATENT-CLASS-901-31								US-PATENT-4,586,140
				US-PATENT-4,547,121		N86-25416*	c 24	NASA-CASE-ARC-11421-3		N86-27288*	c 08	NASA-CASE-ARC-11372-1
N86-20797* #	c 37			NAS 1.71:ARC-11349-1				US-PATENT-APPL-SN-771538				US-PATENT-APPL-SN-415878
								US-PATENT-CLASS-428-473.5				

			US-PATENT-CLASS-200-157			US-PATENT-APPL-SN-698641	N86-32526* #	c 23	NAS 1.71:LAR-13555-1
			US-PATENT-CLASS-244-234			US-PATENT-CLASS-350-276R			NASA-CASE-LAR-13555-1
			US-PATENT-CLASS-250-211K			US-PATENT-CLASS-350-505			US-PATENT-APPL-SN-871207
			US-PATENT-CLASS-318-584			US-PATENT-CLASS-354-479	N86-32550*	c 26	NASA-CASE-GSC-12880-1
			US-PATENT-CLASS-318-640			US-PATENT-CLASS-358-222			US-PATENT-APPL-SN-590925
			US-PATENT-4,584,510			US-PATENT-4,598,981			US-PATENT-CLASS-427-191
N86-27431*	c 25		NASA-CASE-MSC-20206-1	N86-28760*	c 76	NASA-CASE-NPO-15904-1			US-PATENT-CLASS-427-192
			US-PATENT-APPL-SN-478129			US-PATENT-APPL-SN-465369			US-PATENT-CLASS-427-421
			US-PATENT-CLASS-141-198			US-PATENT-CLASS-156-DIG.88			US-PATENT-CLASS-427-427
			US-PATENT-CLASS-200-61.05			US-PATENT-CLASS-156-610			US-PATENT-4,552,784
			US-PATENT-CLASS-340-605			US-PATENT-CLASS-156-624	N86-32551*	c 26	NASA-CASE-NPO-15658-1
			US-PATENT-4,591,838			US-PATENT-4,596,626			US-PATENT-APPL-SN-451898
N86-27450*	c 27		NASA-CASE-LAR-13316-1	N86-29039*	c 27	NASA-CASE-LAR-13353-1			US-PATENT-CLASS-219-121LE
			US-PATENT-APPL-SN-613139			US-PATENT-APPL-SN-643524			US-PATENT-CLASS-219-121LY
			US-PATENT-CLASS-260-544P			US-PATENT-CLASS-264-204			US-PATENT-CLASS-264-5
			US-PATENT-CLASS-525-534			US-PATENT-CLASS-264-216			US-PATENT-CLASS-425-6
			US-PATENT-CLASS-525-535			US-PATENT-CLASS-264-236			US-PATENT-CLASS-65-142
			US-PATENT-CLASS-526-285			US-PATENT-CLASS-264-347			US-PATENT-CLASS-65-21.2
			US-PATENT-CLASS-528-171			US-PATENT-CLASS-528-183			US-PATENT-CLASS-73-505
			US-PATENT-CLASS-528-174			US-PATENT-CLASS-528-222			US-PATENT-4,553,917
			US-PATENT-CLASS-528-176			US-PATENT-CLASS-528-341	N86-32568* #	c 27	NASA-CASE-ARC-11512-2
			US-PATENT-4,587,312			US-PATENT-4,595,548			US-PATENT-APPL-SN-641153
N86-27451*	c 27		NASA-CASE-ARC-11427-2	N86-29055*	c 31	NASA-CASE-MFS-25825-1			US-PATENT-CLASS-528-336
			US-PATENT-APPL-SN-765980			US-PATENT-APPL-SN-657309			US-PATENT-CLASS-528-337
			US-PATENT-CLASS-523-434			US-PATENT-CLASS-318-605			US-PATENT-CLASS-528-340
			US-PATENT-CLASS-523-445			US-PATENT-CLASS-318-636			US-PATENT-CLASS-528-347
			US-PATENT-CLASS-523-461			US-PATENT-CLASS-318-661			US-PATENT-CLASS-564-15
			US-PATENT-CLASS-525-108			US-PATENT-CLASS-340-347CC			US-PATENT-CLASS-568-14
			US-PATENT-CLASS-525-115			US-PATENT-CLASS-340-347SY			US-PATENT-4,602,081
			US-PATENT-CLASS-525-119			US-PATENT-4,594,540	N86-32569*	c 27	NASA-CASE-LEW-14072-2
			US-PATENT-CLASS-525-122			NASA-CASE-LAR-13254-1CU			US-PATENT-APPL-SN-761235
			US-PATENT-4,588,778			US-PATENT-APPL-SN-668432			US-PATENT-CLASS-204-192C
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N88-24544*	c 76	NASA-CASE-MFS-28137-1 US-PATENT-APPL-SN-925189 US-PATENT-CLASS-156-DIG.70 US-PATENT-CLASS-156-DIG.72 US-PATENT-CLASS-156-DIG.82 US-PATENT-CLASS-156-607 US-PATENT-CLASS-156-621 US-PATENT-CLASS-156-624 US-PATENT-CLASS-422-246 US-PATENT-4,738,831	N88-24944* # c 35 NAS 1.71:NPO-17390-1-CU NASA-CASE-NPO-17390-1-CU US-PATENT-APPL-SN-205899	N88-29002* c 25 NASA-CASE-LAR-13528-1 US-PATENT-APPL-SN-933962 US-PATENT-CLASS-236-15-E US-PATENT-CLASS-364-500 US-PATENT-CLASS-364-557 US-PATENT-CLASS-364-571 US-PATENT-CLASS-374-36 US-PATENT-CLASS-431-13 US-PATENT-CLASS-431-76 US-PATENT-4,761,744
N88-24545*	c 76	NASA-CASE-MFS-28144-1 US-PATENT-APPL-SN-924399 US-PATENT-CLASS-156-DIG.70 US-PATENT-CLASS-156-DIG.72 US-PATENT-CLASS-156-DIG.82 US-PATENT-CLASS-156-DIG.84 US-PATENT-CLASS-156-DIG.89 US-PATENT-CLASS-156-DIG.92 US-PATENT-CLASS-156-620.76 US-PATENT-4,740,264	N88-24958* c 36 NASA-CASE-MSC-20867-1 US-PATENT-APPL-SN-045984 US-PATENT-CLASS-356-1 US-PATENT-CLASS-356-376 US-PATENT-CLASS-356-4 US-PATENT-CLASS-358-107 US-PATENT-CLASS-364-561 US-PATENT-4,736,247	N88-29012* # c 26 NAS 1.71:LAR-13817-1 NASA-CASE-LAR-13817-1 US-PATENT-APPL-SN-210486
N88-24621* #	c 04	NAS 1.71:LAR-13854-1-CU NASA-CASE-LAR-13854-1-CU US-PATENT-APPL-SN-192562	N88-24969* # c 37 NAS 1.71:MSC-21354-1 NASA-CASE-MSC-21354-1 US-PATENT-APPL-SN-154712	N88-29040* c 27 NASA-CASE-ARC-11649-1-SB US-PATENT-APPL-SN-890577 US-PATENT-CLASS-501-88 US-PATENT-CLASS-501-91 US-PATENT-CLASS-501-92 US-PATENT-CLASS-501-93 US-PATENT-CLASS-528-10 US-PATENT-CLASS-528-30 US-PATENT-CLASS-528-4 US-PATENT-4,767,728
N88-24628* #	c 05	NAS 1.71:LAR-13983-1 NASA-CASE-LAR-13983-1 US-PATENT-APPL-SN-192563	N88-25011* # c 39 NAS 1.71:LAR-13705-1 NASA-CASE-LAR-13705-1 US-PATENT-APPL-SN-203177	N88-29048* # c 29 NAS 1.71:LAR-13607-1-CU NASA-CASE-LAR-13607-1-CU US-PATENT-APPL-SN-210445
N88-24660* #	c 16	NAS 1.71:MSC-21330-1 NASA-CASE-MSC-21330-1 US-PATENT-APPL-SN-182000	N88-25301* # c 74 NAS 1.71:NPO-17139-1-CU NASA-CASE-NPO-17139-1-CU US-PATENT-APPL-SN-154718	N88-29052* c 31 NASA-CASE-MSC-18172-3 US-PATENT-APPL-SN-119334 US-PATENT-APPL-SN-755960 US-PATENT-APPL-SN-898449 US-PATENT-CLASS-210-500.25 US-PATENT-CLASS-210-500.35 US-PATENT-CLASS-210-639 US-PATENT-CLASS-210-653 US-PATENT-CLASS-427-245 US-PATENT-4,762,619
N88-24662* #	c 17	NAS 1.71:MSC-21170-1 NASA-CASE-MSC-21170-1 US-PATENT-APPL-SN-182266	N88-25302* # c 74 NAS 1.71:LAR-13387-1 NASA-CASE-LAR-13387-1 US-PATENT-APPL-SN-154716	N88-29076* c 32 NASA-CASE-NPO-17196-1-CU US-PATENT-APPL-SN-084770 US-PATENT-CLASS-328-155 US-PATENT-CLASS-331-17 US-PATENT-CLASS-331-25 US-PATENT-4,771,250
N88-24684* #	c 20	NAS 1.71:MSC-21299-1 NASA-CASE-MSC-21299-1 US-PATENT-APPL-SN-176587	N88-25355* # c 76 NAS 1.71:LAR-13678-1 NASA-CASE-LAR-13678-1 US-PATENT-APPL-SN-176547	N88-29095* # c 33 NAS 1.71:NPO-17233-1-CU NASA-CASE-NPO-17233-1-CU US-PATENT-APPL-SN-231025
N88-24692*	c 23	NASA-CASE-ARC-11428-3 US-PATENT-APPL-SN-599126 US-PATENT-APPL-SN-760374 US-PATENT-APPL-SN-924467 US-PATENT-CLASS-558-80 US-PATENT-CLASS-564-13 US-PATENT-4,550,177 US-PATENT-4,634,759 US-PATENT-4,748,263	N88-25356* # c 76 NAS 1.71:MFS-28206-1-SB NASA-CASE-MFS-28206-1-SB US-PATENT-APPL-SN-172101	N88-29132* c 34 NASA-CASE-MSC-20840-1 US-PATENT-APPL-SN-943346 US-PATENT-CLASS-165-170 US-PATENT-CLASS-165-81 US-PATENT-4,762,173
N88-24732*	c 25	NASA-CASE-NPO-16907-1-CU US-PATENT-APPL-SN-930217 US-PATENT-CLASS-204-157.22 US-PATENT-CLASS-250-423-P US-PATENT-CLASS-250-427 US-PATENT-4,704,197	N88-25357* # c 76 NAS 1.71:MFS-28182-1 NASA-CASE-MFS-28182-1 US-PATENT-APPL-SN-161681	N88-29133* c 34 NASA-CASE-GSC-13019-1 US-PATENT-APPL-SN-942158 US-PATENT-CLASS-122-366 US-PATENT-CLASS-138-38 US-PATENT-CLASS-165-104.26 US-PATENT-CLASS-165-905 US-PATENT-4,765,396
N88-24814* #	c 31	NAS 1.71:NPO-16985-1-CU NASA-CASE-NPO-16985-1-CU US-PATENT-APPL-SN-195222	N88-26404* c 23 NASA-CASE-LEW-14345-1 US-PATENT-APPL-SN-924474 US-PATENT-CLASS-260-386 US-PATENT-CLASS-260-389 US-PATENT-CLASS-260-395 US-PATENT-CLASS-549-241 US-PATENT-4,758,380	N88-29149* c 35 NASA-CASE-LAR-13776-1 US-PATENT-APPL-SN-054980 US-PATENT-APPL-SN-846429 US-PATENT-CLASS-244-134-F US-PATENT-CLASS-324-61-R US-PATENT-CLASS-340-580 US-PATENT-4,766,369
N88-24817* #	c 31	NAS 1.71:MFS-28248-1 NASA-CASE-MFS-28248-1 US-PATENT-APPL-SN-176545	N88-26541* # c 32 NAS 1.71:NPO-17184-1-CU NASA-CASE-NPO-17184-1-CU US-PATENT-APPL-SN-195225	N88-29150* c 35 NASA-CASE-LAR-13826-1 US-PATENT-APPL-SN-102705 US-PATENT-APPL-SN-684186 US-PATENT-APPL-SN-890982 US-PATENT-CLASS-73-290-R US-PATENT-CLASS-73-304-R US-PATENT-4,765,187
N88-24862*	c 33	NASA-CASE-NPO-16402-2 US-PATENT-APPL-SN-013803 US-PATENT-APPL-SN-727931 US-PATENT-CLASS-307-106 US-PATENT-CLASS-315-172 US-PATENT-CLASS-315-173 US-PATENT-CLASS-328-67 US-PATENT-4,698,518	N88-26568* c 32 NASA-CASE-MSC-20912-1 US-PATENT-APPL-SN-831193 US-PATENT-CLASS-342-125 US-PATENT-CLASS-342-127 US-PATENT-CLASS-342-43 US-PATENT-CLASS-342-51 US-PATENT-4,757,315	N88-29151* c 35 NASA-CASE-NPO-17068-1-CU US-PATENT-APPL-SN-076956 US-PATENT-CLASS-60-527 US-PATENT-4,765,139
N88-24863* #	c 33	NAS 1.71:NPO-16882-1-CU NASA-CASE-NPO-16882-1-CU US-PATENT-APPL-SN-154711	N88-27220* # c 17 NAS 1.71:NPO-17280-1-CU NASA-CASE-NPO-17280-1-CU US-PATENT-APPL-SN-195226	N88-29180* c 37 NASA-CASE-MSC-21207-1 US-PATENT-APPL-SN-032818 US-PATENT-CLASS-403-171 US-PATENT-CLASS-403-217 US-PATENT-CLASS-52-646 US-PATENT-CLASS-52-648 US-PATENT-4,763,459
N88-24864* #	c 33	NAS 1.71:NPO-17134-1-CU NASA-CASE-NPO-17134-1-CU US-PATENT-APPL-SN-172105	N88-28914* c 05 NASA-CASE-ARC-11636-1 US-PATENT-APPL-SN-933963 US-PATENT-CLASS-244-12.3 US-PATENT-CLASS-244-12.4 US-PATENT-CLASS-244-207 US-PATENT-CLASS-244-45-A US-PATENT-CLASS-244-55 US-PATENT-4,767,083	N88-29181* c 37 NASA-CASE-MSC-21132-1 US-PATENT-APPL-SN-118992 US-PATENT-CLASS-188-218-XL
N88-24927*	c 35	NASA-CASE-MSC-20549-2 US-PATENT-APPL-SN-045743 US-PATENT-APPL-SN-790596 US-PATENT-CLASS-254-93-H	N88-28938* # c 09 NAS 1.71:MFS-28281-1 NASA-CASE-MFS-28281-1 US-PATENT-APPL-SN-205898	
			N88-28939* c 09 NASA-CASE-LEW-14374-1 US-PATENT-APPL-SN-060200 US-PATENT-CLASS-219-383	

		US-PATENT-CLASS-188-251-A				US-PATENT-CLASS-564-344				US-PATENT-CLASS-250-216
		US-PATENT-4,763,762				US-PATENT-CLASS-564-396				US-PATENT-CLASS-350-354
N88-29310*	c 60	NASA-CASE-NPO-16116-2				US-PATENT-CLASS-564-430				US-PATENT-4,772,785
		US-PATENT-APPL-SN-004282				US-PATENT-4,774,359		N89-14078*	c 74	NASA-CASE-NPO-16750-1-CU
		US-PATENT-APPL-SN-587749		N89-12741*	c 27	NASA-CASE-LAR-13506-1				US-PATENT-APPL-SN-927972
		US-PATENT-CLASS-364-200				US-PATENT-APPL-SN-060182				US-PATENT-CLASS-350-162.13
		US-PATENT-4,766,533				US-PATENT-CLASS-156-297				US-PATENT-CLASS-350-331-R
N88-29602* #	c 76	NAS 1.71:MFS-28282-1				US-PATENT-CLASS-156-299				US-PATENT-CLASS-350-337
		NASA-CASE-MFS-28282-1				US-PATENT-CLASS-428-44				US-PATENT-CLASS-350-342
		US-PATENT-APPL-SN-217533				US-PATENT-CLASS-428-47				US-PATENT-CLASS-382-31
N88-29888* #	c 24	NAS 1.71:LEW-14698-1				US-PATENT-CLASS-428-58				US-PATENT-4,772,101
		NASA-CASE-LEW-14698-1				US-PATENT-CLASS-428-71		N89-14119* #	c 76	NAS 1.71:LAR-13963-1
		US-PATENT-APPL-SN-219016				US-PATENT-CLASS-428-76				NASA-CASE-LAR-13963-1
N88-29984* #	c 27	NAS 1.71:LEW-14203-1				US-PATENT-4,774,118				US-PATENT-APPL-SN-232735
		NASA-CASE-LEW-14203-1		N89-12785*	c 31	NASA-CASE-NPO-17085-1-CU		N89-14120* #	c 76	NAS 1.71:NPO-17399-1-CU
		US-PATENT-APPL-SN-231026				US-PATENT-APPL-SN-087282				NASA-CASE-NPO-17399-1-CU
N88-30001* #	c 32	NAS 1.71:NPO-16987-1-CU				US-PATENT-CLASS-165-61				US-PATENT-APPL-SN-248019
		NASA-CASE-NPO-16987-1-CU				US-PATENT-CLASS-165-96		N89-14224*	c 02	NASA-CASE-LAR-13215-1
		US-PATENT-APPL-SN-203376				US-PATENT-CLASS-62-467				US-PATENT-APPL-SN-904132
N88-30105* #	c 35	NAS 1.71:LAR-13740-1				US-PATENT-CLASS-62-514-R				US-PATENT-CLASS-244-35-R
		NASA-CASE-LAR-13740-1				US-PATENT-4,771,823				US-PATENT-CLASS-416-223-R
		US-PATENT-APPL-SN-205900		N89-12786*	c 31	NASA-CASE-LAR-13438-1		N89-14233* #	c 05	US-PATENT-4,776,531
N88-30108*	c 35	NASA-CASE-LAR-13797-1				US-PATENT-APPL-SN-022298				NAS 1.71:LAR-13875-1
		US-PATENT-APPL-SN-074792				US-PATENT-CLASS-428-182				NASA-CASE-LAR-13875-1
		US-PATENT-APPL-SN-831372				US-PATENT-CLASS-52-814		N89-14258* #	c 24	US-PATENT-APPL-SN-250468
		US-PATENT-CLASS-156-233				US-PATENT-CLASS-52-821				NAS 1.71:LAR-13225-1
		US-PATENT-CLASS-156-247				US-PATENT-4,769,968				NASA-CASE-LAR-13225-1
		US-PATENT-CLASS-156-272.4		N89-12841*	c 35	NASA-CASE-LAR-13569-1		N89-14259* #	c 24	US-PATENT-APPL-SN-248018
		US-PATENT-CLASS-156-274.8				US-PATENT-APPL-SN-010943				NAS 1.71:LEW-14472-1
		US-PATENT-CLASS-156-275.5				US-PATENT-CLASS-73-147				NASA-CASE-LEW-14472-1
		US-PATENT-CLASS-156-307.7				US-PATENT-CLASS-73-180		N89-14303*	c 26	US-PATENT-APPL-SN-251499
		US-PATENT-4,767,484				US-PATENT-4,770,032				NASA-CASE-LEW-14134-2
N88-30130* #	c 37	NAS 1.71:LAR-13898-1		N89-12842* #	c 35	NAS 1.71:MSC-21372-1				US-PATENT-APPL-SN-108331
		NASA-CASE-LAR-13898-1				NASA-CASE-MSC-21372-1				US-PATENT-CLASS-420-54
		US-PATENT-APPL-SN-225427				US-PATENT-APPL-SN-246595				US-PATENT-CLASS-420-62
N88-30131*	c 37	NASA-CASE-MSC-20900-1		N89-12843* #	c 35	NAS 1.71:MSC-21059-1				US-PATENT-CLASS-420-79
		US-PATENT-APPL-SN-079317				NASA-CASE-MSC-21059-1				US-PATENT-CLASS-420-80
		US-PATENT-CLASS-219-121.54				US-PATENT-APPL-SN-217725				US-PATENT-CLASS-420-81
		US-PATENT-CLASS-219-121.56		N89-12856* #	c 36	NAS 1.71:NPO-17282-1-CU				US-PATENT-4,780,276
		US-PATENT-CLASS-219-121.57				NASA-CASE-NPO-17282-1-CU		N89-14337*	c 27	NASA-CASE-LAR-13601-1-CU
		US-PATENT-CLASS-219-124.02				US-PATENT-APPL-SN-235150				US-PATENT-APPL-SN-028831
		US-PATENT-CLASS-219-130.4				NAS 1.71:MSC-21095-1				US-PATENT-CLASS-528-125
		US-PATENT-4,766,286		N89-12866* #	c 37	NASA-CASE-MSC-21095-1				US-PATENT-CLASS-528-128
N88-30160* #	c 39	NAS 1.71:LAR-13889-1				US-PATENT-APPL-SN-248010		N89-14348* #	c 31	US-PATENT-4,788,271
		NASA-CASE-LAR-13889-1		N89-12867* #	c 37	NAS 1.71:LAR-13719-1				NAS 1.71:LEW-14295-1
		US-PATENT-APPL-SN-210277				NASA-CASE-LAR-13719-1				NASA-CASE-LEW-14295-1
N89-11724* #	c 03	NAS 1.71:MSC-21332-1				US-PATENT-APPL-SN-239260		N89-14351*	c 31	US-PATENT-APPL-SN-244377
		NASA-CASE-MSC-21332-1		N89-12868* #	c 37	NAS 1.71:MFS-29291-1				NASA-CASE-NPO-17143-1-CU
		US-PATENT-APPL-SN-242253				NASA-CASE-MFS-29291-1				US-PATENT-APPL-SN-105847
N89-11738*	c 05	NASA-CASE-LAR-12852-1				US-PATENT-APPL-SN-250196				US-PATENT-CLASS-62-467
		US-PATENT-APPL-SN-028832		N89-13131* #	c 51	NAS 1.71:MSC-21294-1				US-PATENT-CLASS-62-514-JT
		US-PATENT-CLASS-244-75-R				NASA-CASE-MSC-21294-1				US-PATENT-4,779,428
		US-PATENT-CLASS-244-78				US-PATENT-APPL-SN-213558		N89-14374*	c 32	NASA-CASE-GSC-12892-1
		US-PATENT-4,773,620		N89-13236*	c 71	NASA-CASE-NPO-16896-1-CU				US-PATENT-APPL-SN-655606
N89-11814* #	c 23	NAS 1.71:LAR-13988-1				US-PATENT-APPL-SN-087283				US-PATENT-CLASS-455-115
		NASA-CASE-LAR-13988-1				US-PATENT-CLASS-73-505				US-PATENT-CLASS-455-117
		US-PATENT-APPL-SN-250661				US-PATENT-4,773,266				US-PATENT-CLASS-455-67
N89-11961*	c 32	NASA-CASE-MSC-20873-1-SB		N89-13253* #	c 74	NAS 1.71:MFS-28183-1				US-PATENT-CLASS-455-98
		US-PATENT-APPL-SN-060196				NASA-CASE-MFS-28183-1		N89-14384*	c 33	US-PATENT-4,777,656
		US-PATENT-CLASS-342-374				US-PATENT-APPL-SN-244367				NASA-CASE-ARC-11536-1
		US-PATENT-CLASS-342-375		N89-13496* #	c 23	NAS 1.71:LAR-13992-1-CU				US-PATENT-APPL-SN-725714
		US-PATENT-CLASS-343-777				NASA-CASE-LAR-13992-1-CU				US-PATENT-CLASS-342-195
		US-PATENT-CLASS-343-778				US-PATENT-APPL-SN-248009				US-PATENT-CLASS-356-28.5
		US-PATENT-CLASS-343-779		N89-13620* #	c 27	NAS 1.71:MSC-20782-1				US-PATENT-CLASS-364-900
		US-PATENT-4,772,893				NASA-CASE-MSC-20782-1				US-PATENT-4,779,222
N89-12048*	c 35	NASA-CASE-LEW-14297-1				US-PATENT-APPL-SN-213392		N89-14385*	c 33	NASA-CASE-LAR-13552-1-CU
		US-PATENT-APPL-SN-917125		N89-13728* #	c 34	NAS 1.71:NPO-17203-1-CU				US-PATENT-APPL-SN-933941
		US-PATENT-CLASS-126-443				NASA-CASE-NPO-17203-1-CU				US-PATENT-CLASS-324-77-E
		US-PATENT-CLASS-126-901				US-PATENT-APPL-SN-250195				US-PATENT-CLASS-324-77-R
		US-PATENT-CLASS-165-41		N89-13764* #	c 35	NAS 1.71:NPO-17436-1-CU				US-PATENT-CLASS-324-78-D
		US-PATENT-CLASS-165-904				NASA-CASE-NPO-17436-1-CU				US-PATENT-CLASS-324-78-F
		US-PATENT-4,770,232				US-PATENT-APPL-SN-237035				US-PATENT-CLASS-356-28.5
N89-12206* #	c 54	NAS 1.71:MSC-21366-1		N89-13785*	c 37	NASA-CASE-NPO-16766-1-CU				US-PATENT-CLASS-364-484
		NASA-CASE-MSC-21366-1				US-PATENT-APPL-SN-921577				US-PATENT-CLASS-377-39
		US-PATENT-APPL-SN-213880				US-PATENT-CLASS-194-902				US-PATENT-4,786,168
N89-12551*	c 02	NASA-CASE-LAR-13554-1				US-PATENT-CLASS-269-267		N89-14392*	c 34	NASA-CASE-MFS-28217-1
		US-PATENT-APPL-SN-929862				US-PATENT-CLASS-294-88				US-PATENT-APPL-SN-067844
		US-PATENT-CLASS-116-DIG.43				US-PATENT-4,770,455				US-PATENT-CLASS-122-366
		US-PATENT-CLASS-116-265		N89-13786*	c 37	NASA-CASE-KSC-11368-1				US-PATENT-CLASS-165-104.14
		US-PATENT-CLASS-73-147				US-PATENT-APPL-SN-052940				US-PATENT-CLASS-165-104.26
		US-PATENT-4,774,835				US-PATENT-CLASS-285-107				US-PATENT-4,770,238
N89-12621*	c 18	NASA-CASE-MSC-21096-1				US-PATENT-CLASS-285-108		N89-14407*	c 35	NASA-CASE-LAR-13300-1-CU
		US-PATENT-APPL-SN-929865				US-PATENT-CLASS-285-109				US-PATENT-APPL-SN-829042
		US-PATENT-CLASS-182-103				US-PATENT-CLASS-285-133.1				US-PATENT-CLASS-310-338
		US-PATENT-CLASS-212-225				US-PATENT-CLASS-285-351				US-PATENT-CLASS-367-908
		US-PATENT-CLASS-212-257				US-PATENT-CLASS-285-39				US-PATENT-CLASS-73-290-V
		US-PATENT-CLASS-414-689				US-PATENT-CLASS-285-97				US-PATENT-4,770,038
		US-PATENT-CLASS-414-718		N89-13787* #	c 37	NAS 1.71:NPO-17453-1-CU		N89-14408* #	c 35	NAS 1.71:LAR-13775-1
		US-PATENT-CLASS-414-735				NASA-CASE-NPO-17453-1-CU				NASA-CASE-LAR-13775-1
		US-PATENT-4,772,175				US-PATENT-APPL-SN-248501				US-PATENT-APPL-SN-248020
N89-12667*	c 23	NASA-CASE-LAR-13444-2-CU		N89-13889* #	c 54	NAS 1.71:MSC-21364-1		N89-14422*	c 35	NASA-CASE-NPO-17086-1-CU
		US-PATENT-APPL-SN-000692				NASA-CASE-MSC-21364-1				US-PATENT-APPL-SN-087359
		US-PATENT-CLASS-564-315				US-PATENT-APPL-SN-221472				US-PATENT-CLASS-73-505
		US-PATENT-CLASS-564-323				NASA-CASE-NPO-17140-1-CU				US-PATENT-4,777,823
		US-PATENT-CLASS-564-330		N89-14077*	c 74	NASA-CASE-NPO-17140-1-CU		N89-14423*	c 35	NASA-CASE-LAR-13853-1
		US-PATENT-CLASS-564-342				US-PATENT-APPL-SN-125021				US-PATENT-APPL-SN-143436

			US-PATENT-CLASS-73-147	N89-26400*	c 60	NASA-CASE-NPO-16461-1CU	NASA-CASE-MSC-21408-1
			US-PATENT-CLASS-73-861.65			US-PATENT-APPL-SN-815103	US-PATENT-APPL-SN-304154
			US-PATENT-4,783,994			US-PATENT-CLASS-364-131	NAS 1.71:LEW-14695-1
N89-14428*	#	c 36	NAS 1.71:LAR-13771-1			US-PATENT-CLASS-382-41	NASA-CASE-LEW-14695-1
			NASA-CASE-LAR-13771-1			US-PATENT-CLASS-382-42	US-PATENT-APPL-SN-292146
			US-PATENT-APPL-SN-221387			US-PATENT-CLASS-382-49	NASA-CASE-MFS-28253-1
N89-14666*	#	c 51	NAS 1.71:MSC-21293-1			US-PATENT-4,790,026	US-PATENT-APPL-SN-165943
			NASA-CASE-MSC-21293-1	N89-28546*	c 14	NAS 1.71:MFS-28376-1	US-PATENT-CLASS-33-536
			US-PATENT-APPL-SN-213559			NASA-CASE-MFS-28376-1	US-PATENT-4,809,441
N89-15379*	c 35		NASA-CASE-MSC-20906-2			US-PATENT-APPL-SN-361479	NAS 1.71:MFS-28345-1
			US-PATENT-APPL-SN-021569	N89-28547*	c 14	NAS 1.71:LAR-14149-1-SB	NASA-CASE-MFS-28345-1
			US-PATENT-CLASS-244-164			NASA-CASE-LAR-14149-1-SB	US-PATENT-APPL-SN-364743
			US-PATENT-CLASS-244-165			US-PATENT-APPL-SN-357757	N89-28842* #
			US-PATENT-CLASS-74-572	N89-28549* #	c 14	NAS 1.71:LEW-14848-1	NAS 1.71:MFS-28345-2
			US-PATENT-4,776,541			NASA-CASE-LEW-14848-1	NASA-CASE-MFS-28345-2
N89-16042*	c 27		NASA-CASE-ARC-11533-2			US-PATENT-APPL-SN-382885	US-PATENT-APPL-SN-358028
			US-PATENT-APPL-SN-852461	N89-28553*	c 18	NASA-CASE-MSC-21211-1	NAS 1.71:NPO-17785-1-CU
			US-PATENT-CLASS-528-220			US-PATENT-APPL-SN-105841	NASA-CASE-NPO-17785-1-CU
			US-PATENT-CLASS-528-228			US-PATENT-CLASS-244-159	US-PATENT-APPL-SN-353411
			US-PATENT-CLASS-528-321			US-PATENT-CLASS-244-161	N89-28967* #
			US-PATENT-CLASS-528-322			US-PATENT-CLASS-285-226	NAS 1.71:NST-00007-1
			US-PATENT-CLASS-528-353			US-PATENT-CLASS-403-51	NASA-CASE-NST-00007-1
			US-PATENT-CLASS-528-72			US-PATENT-4,809,936	US-PATENT-APPL-SN-357938
			US-PATENT-CLASS-528-73	N89-28554*	c 18	NASA-CASE-MSC-21117-2	NAS 1.71:MSC-21629-1
			US-PATENT-4,775,740			US-PATENT-APPL-SN-184233	NASA-CASE-MSC-21629-1
N89-16256*	c 52		NASA-CASE-ARC-11426-2			US-PATENT-APPL-SN-929875	US-PATENT-APPL-SN-378548
			US-PATENT-APPL-SN-827185			US-PATENT-CLASS-248-DIG-1	NASA-CASE-NPO-16789-1-CU
			US-PATENT-CLASS-351-203			US-PATENT-CLASS-403-30	US-PATENT-APPL-SN-154713
			US-PATENT-CLASS-351-237			US-PATENT-CLASS-403-4	US-PATENT-CLASS-250-252
			US-PATENT-4,778,268			US-PATENT-CLASS-52-573	US-PATENT-CLASS-250-397
N89-23466* #	c 07		NAS 1.71:LAR-14049-1			US-PATENT-CLASS-52-648	US-PATENT-4,818,868
			NASA-CASE-LAR-14049-1	N89-28556* #	c 18	US-PATENT-4,805,368	NAS 1.71:NPO-17703-1-CU
			US-PATENT-APPL-SN-270189			NAS 1.71:MFS-28327-1	NASA-CASE-NPO-17703-1-CU
N89-23623* #	c 24		NAS 1.71:LEW-14734-1			NASA-CASE-MFS-28327-1	US-PATENT-APPL-SN-359801
			NASA-CASE-LEW-14734-1			US-PATENT-APPL-SN-361200	NASA-CASE-LEW-14392-2
			US-PATENT-APPL-SN-279624	N89-28586* #	c 24	NAS 1.71:LAR-13985-1	US-PATENT-APPL-SN-038560
N89-23692* #	c 27		NAS 1.71:LAR-14101-1			NASA-CASE-LAR-13985-1	US-PATENT-CLASS-428-288
			NASA-CASE-LAR-14101-1			US-PATENT-APPL-SN-386172	US-PATENT-CLASS-428-367
			US-PATENT-APPL-SN-266045	N89-28603* #	c 25	NAS 1.71:MFS-26049-1-NP	US-PATENT-CLASS-428-375
N89-23738* #	c 31		NAS 1.71:MFS-29491-1			NASA-CASE-MFS-26049-1-NP	US-PATENT-CLASS-428-390
			NASA-CASE-MFS-29491-1			US-PATENT-APPL-SN-376487	US-PATENT-CLASS-428-408
			US-PATENT-APPL-SN-279677	N89-28621* #	c 26	NASA-CASE-LAR-13924-1-CU	US-PATENT-CLASS-428-698
N89-23739* #	c 31		NAS 1.71:MFS-29489-1			US-PATENT-APPL-SN-172102	US-PATENT-4,781,993
			NASA-CASE-MFS-29489-1			US-PATENT-CLASS-148-159	N89-29539* #
			US-PATENT-APPL-SN-279625			US-PATENT-CLASS-148-416	NASA-CASE-MSC-21169-1
N89-24084* #	c 62		NAS 1.71:MSC-21348-1			US-PATENT-CLASS-148-417	US-PATENT-APPL-SN-044183
			NASA-CASE-MSC-21348-1			US-PATENT-CLASS-420-529	US-PATENT-CLASS-264-DIG-59
			US-PATENT-APPL-SN-283106			US-PATENT-CLASS-420-533	US-PATENT-CLASS-264-236
N89-24153* #	c 74		NAS 1.71:NPO-17562-1-CU			US-PATENT-4,820,488	US-PATENT-CLASS-264-257
			NASA-CASE-NPO-17562-1-CU	N89-28651* #	c 27	NAS 1.71:LEW-14679-1	US-PATENT-CLASS-264-347
			US-PATENT-APPL-SN-277596			NASA-CASE-LEW-14679-1	US-PATENT-CLASS-264-40.1
N89-25242* #	c 09		NASA-CASE-MFS-25962-1			US-PATENT-APPL-SN-381240	US-PATENT-CLASS-264-40.5
			US-PATENT-APPL-SN-633180	N89-28672* #	c 32	NASA-CASE-LAR-13747-1-CU	US-PATENT-CLASS-264-40.6
			US-PATENT-CLASS-239-14.1			US-PATENT-APPL-SN-197191	US-PATENT-4,810,438
			US-PATENT-CLASS-239-2.1			US-PATENT-CLASS-342-1	N89-29577* #
			US-PATENT-4,781,326			US-PATENT-CLASS-342-165	NAS 1.71:NPO-17630-1-CU
N89-25263* #	c 18		NAS 1.71:MSC-21360-1			US-PATENT-CLASS-342-5	NASA-CASE-NPO-17630-1-CU
			NASA-CASE-MSC-21360-1			US-PATENT-4,809,003	US-PATENT-APPL-SN-304149
			US-PATENT-APPL-SN-292131	N89-28676* #	c 32	NASA-CASE-NPO-17249-1-CU	NASA-CASE-GSC-13112-1
N89-25266* #	c 18		NASA-CASE-ARC-11505-2			US-PATENT-APPL-SN-125666	US-PATENT-APPL-SN-205771
			US-PATENT-APPL-SN-159072			US-PATENT-CLASS-358-88	US-PATENT-CLASS-206-0.7
			US-PATENT-CLASS-244-159			US-PATENT-CLASS-358-91	US-PATENT-CLASS-220-5A
			US-PATENT-CLASS-244-161			US-PATENT-4,819,064	US-PATENT-CLASS-220-901
			US-PATENT-CLASS-285-302			US-PATENT-4,819,064	US-PATENT-CLASS-62-45
			US-PATENT-4,807,834	N89-28684* #	c 32	NAS 1.71:NPO-17628-1-CU	US-PATENT-CLASS-62-48
N89-25279* #	c 20		NASA-CASE-MSC-20476-2			NASA-CASE-NPO-17628-1-CU	US-PATENT-4,821,907
			US-PATENT-APPL-SN-046341			US-PATENT-APPL-SN-350813	N89-29679* #
			US-PATENT-CLASS-239-265.17			US-PATENT-APPL-SN-032819	NAS 1.71:NPO-17393-1-CU
			US-PATENT-CLASS-60-202	N89-28713* #	c 33	NASA-CASE-NPO-17108-1-CU	NASA-CASE-NPO-17393-1-CU
			US-PATENT-CLASS-60-264			US-PATENT-CLASS-364-724.01	US-PATENT-APPL-SN-279676
			US-PATENT-4,815,279			US-PATENT-CLASS-364-724.05	NASA-CASE-NPO-16888-1-CU
N89-25334* #	c 27		NAS 1.71:LAR-13925-1			US-PATENT-CLASS-364-735	US-PATENT-APPL-SN-133412
			NASA-CASE-LAR-13925-1			US-PATENT-CLASS-364-754	US-PATENT-CLASS-324-127
			US-PATENT-APPL-SN-301925			US-PATENT-4,823,299	US-PATENT-CLASS-330-8
N89-25360* #	c 32		NAS 1.71:MSC-21334-1	N89-28793* #	c 35	NAS 1.71:MFS-28370-1	US-PATENT-4,823,074
			NASA-CASE-MSC-21334-1			NASA-CASE-MFS-28370-1	NAS 1.71:NPO-17275-1-CU
			US-PATENT-APPL-SN-292130			US-PATENT-APPL-SN-386175	NASA-CASE-NPO-17275-1-CU
N89-25363* #	c 32		NASA-CASE-LAR-13798-1			NAS 1.71:NPO-16989-1-CU	US-PATENT-APPL-SN-292047
			US-PATENT-APPL-SN-118995	N89-28794* #	c 35	NASA-CASE-NPO-16989-1-CU	NASA-CASE-KSC-11322-1
			US-PATENT-CLASS-343-DIG.2			US-PATENT-APPL-SN-358027	US-PATENT-APPL-SN-894541
			US-PATENT-CLASS-343-880			NAS 1.71:NPO-17596-1-CU	US-PATENT-CLASS-2-201
			US-PATENT-CLASS-343-915	N89-28795* #	c 35	NASA-CASE-NPO-17596-1-CU	US-PATENT-CLASS-24-68B
			US-PATENT-4,811,033			US-PATENT-APPL-SN-361531	US-PATENT-CLASS-381-183
N89-25557* #	c 51		NAS 1.71:MSC-21361-1			NAS 1.71:NPO-17526-1-CU	US-PATENT-CLASS-381-187
			NASA-CASE-MSC-21361-1	N89-28796* #	c 35	NASA-CASE-NPO-17526-1-CU	US-PATENT-4,783,822
			US-PATENT-APPL-SN-278137			US-PATENT-APPL-SN-369403	NAS 1.71:NPO-17525-1-CU
N89-25689* #	c 74		NASA-CASE-MFS-29348-1			NAS 1.71:LEW-14124-1	NASA-CASE-NPO-17525-1-CU
			US-PATENT-APPL-SN-156518	N89-28806* #	c 35	NASA-CASE-LEW-14124-1	US-PATENT-APPL-SN-279630
			US-PATENT-CLASS-350-96.21			US-PATENT-APPL-SN-396263	NASA-CASE-NPO-17197-1-CU
			US-PATENT-CLASS-350-96.25			NAS 1.71:LAR-13772-1	US-PATENT-APPL-SN-292124
			US-PATENT-4,798,433	N89-28816* #	c 36	NASA-CASE-LAR-13772-1	NAS 1.71:NPO-17534-1-CU
N89-26202* #	c 35		NASA-CASE-MFS-28242-1			US-PATENT-APPL-SN-359460	NASA-CASE-NPO-17534-1-CU
			US-PATENT-APPL-SN-149822			NAS 1.71:LAR-14203-1	US-PATENT-APPL-SN-292141
			US-PATENT-CLASS-356-347	N89-28817* #	c 36	NASA-CASE-LAR-14203-1	NAS 1.71:LAR-13392-1-CU
			US-PATENT-CLASS-356-361			US-PATENT-APPL-SN-359459	NASA-CASE-LAR-13392-1-CU
			US-PATENT-4,810,094	N89-28829* #	c 37	NAS 1.71:MSC-21408-1	US-PATENT-APPL-SN-369490
							NAS 1.71:NPO-17524-1-CU
							NASA-CASE-NPO-17524-1-CU

N90-10310* #	c 31	US-PATENT-APPL-SN-366957 NAS 1.71:MFS-28294-1 NASA-CASE-MFS-28294-1 US-PATENT-APPL-SN-396262	N90-16272* #	c 37	NAS 1.71:LAR-13580-1 NASA-CASE-LAR-13580-1 US-PATENT-APPL-SN-441673	N90-17137* #	c 37	NAS 1.71:MSC-21476-1 NASA-CASE-MSC-21476-1 US-PATENT-APPL-SN-392235
N90-10329* #	c 33	NAS 1.71:NPO-17426-1-CU NASA-CASE-NPO-17426-1-CU US-PATENT-APPL-SN-363815	N90-16391* #	c 52	NAS 1.71:NPO-17439-1-CU NASA-CASE-NPO-17439-1-CU US-PATENT-APPL-SN-444248	N90-17138* #	c 37	NAS 1.71:MSC-21434-1 NASA-CASE-MSC-21434-1 US-PATENT-APPL-SN-433881
N90-10415* #	c 35	NAS 1.71:LEW-14880-1 NASA-CASE-LEW-14880-1 US-PATENT-APPL-SN-376738	N90-16410* #	c 61	NAS 1.71:MSC-21465-1 NASA-CASE-MSC-21465-1 US-PATENT-APPL-SN-219295	N90-17153* #	c 37	NASA-CASE-NPO-17354-1-CU US-PATENT-APPL-SN-184236 US-PATENT-CLASS-280-677
N90-10608* #	c 62	NAS 1.71:NPO-17716-1-CU NASA-CASE-NPO-17716-1-CU US-PATENT-APPL-SN-357759	N90-16411* #	c 61	NAS 1.71:MSC-21387-1 NASA-CASE-MSC-21387-1 US-PATENT-APPL-SN-323748	N90-17154* #	c 37	NASA-CASE-MFS-28192-1 US-PATENT-APPL-SN-093417 US-PATENT-CLASS-24-635
N90-10717* #	c 75	NAS 1.71:MFS-28368-1 NASA-CASE-MFS-28368-1 US-PATENT-APPL-SN-386174	N90-16771* #	c 09	NAS 1.71:MSC-21470-1 NASA-CASE-MSC-21470-1 US-PATENT-APPL-SN-381239			US-PATENT-CLASS-292-27 US-PATENT-CLASS-292-34 US-PATENT-CLASS-403-322
N90-10718* #	c 75	NAS 1.71:LEW-14901-1 NASA-CASE-LEW-14901-1 US-PATENT-APPL-SN-376488	N90-16781* #	c 16	NAS 1.71:LAR-14156-1 NASA-CASE-LAR-14156-1 US-PATENT-APPL-SN-433804			US-PATENT-CLASS-403-325 US-PATENT-CLASS-403-328 US-PATENT-4,836,707
N90-11798* #	c 18	NAS 1.71:MSC-21327-1 NASA-CASE-MSC-21327-1 US-PATENT-APPL-SN-292121	N90-16860* #	c 18	NASA-CASE-ARC-11635-1 US-PATENT-APPL-SN-110388 US-PATENT-CLASS-2-2.1A	N90-17252* #	c 51	NASA-CASE-MSC-20929-1 US-PATENT-APPL-SN-087358 US-PATENT-CLASS-210-355
N90-11823* #	c 25	NAS 1.71:LAR-14155-1-SB NASA-CASE-LAR-14155-1-SB US-PATENT-APPL-SN-298150	N90-16887* #	c 25	NAS 1.71:MSC-21487-1 NASA-CASE-MSC-21487-1 US-PATENT-APPL-SN-429739			US-PATENT-CLASS-210-414 US-PATENT-CLASS-435-311 US-PATENT-CLASS-435-316
N90-11824* #	c 25	NASA-CASE-LEW-13609-1 US-PATENT-APPL-SN-452465 US-PATENT-CLASS-165-156	N90-16925* #	c 27	NAS 1.71:MSC-21503-1 NASA-CASE-MSC-21503-1 US-PATENT-APPL-SN-443414	N90-17403* #	c 70	NAS 1.71:LAR-13785-1 NASA-CASE-LAR-13785-1 US-PATENT-APPL-SN-405168
		US-PATENT-CLASS-165-83 US-PATENT-CLASS-431-352 US-PATENT-CLASS-60-730	N90-16949* #	c 27	NASA-CASE-GSC-13008-2 US-PATENT-APPL-SN-163928 US-PATENT-CLASS-521-145	N90-17408* #	c 71	NAS 1.71:LAR-13966-1 NASA-CASE-LAR-13966-1 US-PATENT-APPL-SN-422726
		US-PATENT-CLASS-60-732 US-PATENT-4,819,438			US-PATENT-CLASS-521-178 US-PATENT-CLASS-521-189 US-PATENT-CLASS-521-82	N90-17454* #	c 76	NAS 1.71:LEW-14676-2 NASA-CASE-LEW-14676-2 US-PATENT-APPL-SN-458467
N90-12289* #	c 71	NASA-CASE-NPO-16995-1-CU US-PATENT-APPL-SN-924297 US-PATENT-CLASS-73-505	N90-16950* #	c 27	US-PATENT-CLASS-521-98 US-PATENT-CLASS-521-98 US-PATENT-4,843,123	N90-17455* #	c 76	NAS 1.71:NPO-17736-1-CU NASA-CASE-NPO-17736-1-CU US-PATENT-APPL-SN-392161
		US-PATENT-CLASS-73-571 US-PATENT-4,800,756			NASA-CASE-LAR-13821-1 US-PATENT-APPL-SN-071686 US-PATENT-CLASS-524-233	N90-17456* #	c 76	NAS 1.71:NPO-17812-1-CU NASA-CASE-NPO-17812-1-CU US-PATENT-APPL-SN-387928
N90-15094* #	c 05	NAS 1.71:LAR-13870-1 NASA-CASE-LAR-13870-1 US-PATENT-APPL-SN-429516			US-PATENT-CLASS-524-378 US-PATENT-CLASS-524-600 US-PATENT-CLASS-524-607	N90-18379* #	c 04	NAS 1.71:NPO-17820-1-CU NASA-CASE-NPO-17820-1-CU US-PATENT-APPL-SN-429734
N90-15130* #	c 20	NAS 1.71:LEW-14846-1 NASA-CASE-LEW-14846-1 US-PATENT-APPL-SN-443523	N90-16974* #	c 32	US-PATENT-CLASS-528-125 US-PATENT-CLASS-528-353 US-PATENT-4,837,300	N90-18852* #	c 51	NAS 1.71:MSC-21560-1 NASA-CASE-MSC-21560-1 US-PATENT-APPL-SN-317931
N90-15147* #	c 24	NAS 1.71:LEW-14990-1-CU NASA-CASE-LEW-14990-1-CU US-PATENT-APPL-SN-433863	N90-16975* #	c 32	NAS 1.71:NPO-17564-1-CU NASA-CASE-NPO-17564-1-CU US-PATENT-APPL-SN-414811	N90-19278* #	c 18	NASA-CASE-MSC-21356-1 US-PATENT-APPL-SN-165956 US-PATENT-CLASS-114-112
N90-15148* #	c 24	NAS 1.71:LAR-14194-1 NASA-CASE-LAR-14194-1 US-PATENT-APPL-SN-344877			NAS 1.71:NPO-17853-1-CU NASA-CASE-NPO-17853-1-CU US-PATENT-APPL-SN-443539			US-PATENT-CLASS-114-201R US-PATENT-CLASS-244-129 US-PATENT-CLASS-244-158R
N90-15161* #	c 25	NAS 1.71:LAR-13996-1-SB NASA-CASE-LAR-13996-1-SB US-PATENT-APPL-SN-426345	N90-17005* #	c 32	NASA-CASE-NPO-17325-1-CU US-PATENT-APPL-SN-184235 US-PATENT-CLASS-324-78Z	N90-19298* #	c 20	NASA-CASE-LAR-13773-1 US-PATENT-APPL-SN-165946 US-PATENT-CLASS-60-204
N90-15227* #	c 26	NAS 1.71:MFS-28314-1 NASA-CASE-MFS-28314-1 US-PATENT-APPL-SN-404289			US-PATENT-CLASS-324-78Z US-PATENT-4,843,328 NAS 1.71:MSC-21428-1			US-PATENT-CLASS-60-259 US-PATENT-CLASS-60-260 US-PATENT-4,831,818
N90-15259* #	c 27	NAS 1.71:LAR-14162-1 NASA-CASE-LAR-14162-1 US-PATENT-APPL-SN-410572	N90-17008* #	c 33	NAS 1.71:MSC-21428-1 NASA-CASE-MSC-21428-1 US-PATENT-APPL-SN-343652	N90-19300* #	c 23	NASA-CASE-LEW-14346-1 US-PATENT-APPL-SN-924470 US-PATENT-CLASS-528-188
N90-15260* #	c 27	NAS 1.71:LAR-14001-1 NASA-CASE-LAR-14001-1 US-PATENT-APPL-SN-433812			NASA-CASE-LEW-14746-1 US-PATENT-APPL-SN-392239 NAS 1.71:NPO-17621-1-CU			US-PATENT-CLASS-528-229 US-PATENT-CLASS-528-352 US-PATENT-CLASS-528-353
N90-15261* #	c 27	NAS 1.71:GSC-13199-1 NASA-CASE-GSC-13199-1 US-PATENT-APPL-SN-304147	N90-17010* #	c 33	NASA-CASE-NPO-17621-1-CU US-PATENT-APPL-SN-414820 NAS 1.71:NPO-17640-1-CU	N90-19425* #	c 31	NASA-CASE-NPO-16901-1-CU US-PATENT-APPL-SN-921574 US-PATENT-CLASS-264-114
N90-15262* #	c 27	NAS 1.71:LEW-14698-2 NASA-CASE-LEW-14698-2 US-PATENT-APPL-SN-443289	N90-17011* #	c 33	NASA-CASE-NPO-17621-1-CU US-PATENT-APPL-SN-405169 NAS 1.71:MFS-28383-1			US-PATENT-CLASS-264-311 US-PATENT-CLASS-425-425 US-PATENT-CLASS-425-435
N90-15263* #	c 27	NAS 1.71:NPO-17633-1-CU NASA-CASE-NPO-17633-1-CU US-PATENT-APPL-SN-418611	N90-17051* #	c 34	NASA-CASE-MFS-28383-1 US-PATENT-APPL-SN-404290 NAS 1.71:NPO-17786-1-CU	N90-19427* #	c 31	NASA-CASE-LAR-13638-1 US-PATENT-APPL-SN-223124 US-PATENT-CLASS-156-344
N90-15442* #	c 37	NAS 1.71:LAR-13981-1 NASA-CASE-LAR-13981-1 US-PATENT-APPL-SN-405154	N90-17104* #	c 35	NASA-CASE-NPO-17786-1-CU US-PATENT-APPL-SN-414812 NASA-CASE-LAR-13710-1			US-PATENT-CLASS-244-133 US-PATENT-CLASS-427-272 US-PATENT-4,851,071
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LICENSES FOR COMMERCIAL USE: INQUIRIES AND APPLICATIONS FOR LICENSE

NASA inventions, abstracted in *NASA PAB*, are available for nonexclusive or exclusive licensing in accordance with the NASA Patent Licensing Regulations. It is significant that all licenses for NASA inventions shall be by express written instruments and that no license will be granted or implied in a NASA invention except as provided in the NASA Patent Licensing Regulations.

Inquiries concerning the NASA Patent Licensing Program or the availability of licenses for the commercial use of NASA-owned inventions covered by U.S. patents or pending applications for patent should be forwarded to the NASA Patent Counsel of the NASA installation having cognizance of the specific invention, or the Associate General Counsel for Intellectual Property, code GP, National Aeronautics and Space Administration, Washington, D.C. 20546. Inquiries should refer to the NASA Case Number, the Title of the Invention, and the U.S. Patent Number or the U.S. Application Serial Number assigned to the invention as shown in *NASA PAB*.

The NASA Patent Counsel having cognizance of the invention is determined by the first three letters or prefix of the NASA Case Number assigned to the invention. The addresses of NASA Patent Counsels are listed alongside the NASA Case Number prefix letters in the following table.

STANDING ORDER SUBSCRIPTIONS

NASA SP-7039, Section 2 is available from the National Technical Information Service (NTIS) on standing order subscription as PB 90-911100 at the price of \$31.00 domestic and \$62.00 foreign. Standing order subscriptions do not terminate at the end of a year, as do regular subscriptions, but continue indefinitely unless specifically terminated by the subscriber.

**NASA Case
Number
Prefix Letters**

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PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:

Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

Subpart 2—Licensing of NASA Inventions

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1245.200 Scope of subpart.

1245.201 Policy and objective.

1245.202 Definitions.

1245.203 Authority to grant licenses.

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1245.204 All licenses granted under this subpart.

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1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

PATENT LICENSING REGULATIONS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

14 CFR Part 1245

Licensing of NASA Inventions

AGENCY: National Aeronautics and Space Administration

ACTION: Interim regulation with comments requested.

SUMMARY: The National Aeronautics and Space Administration (NASA) is revising its patent licensing regulations to conform with Pub. L. 96-517. This interim regulation provides policies and procedures applicable to the licensing of federally owned inventions in the custody of the National Aeronautics and Space Administration, and implements Pub. L. 96-517. The object of this subpart is to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

EFFECTIVE DATE: July 1, 1981. Comments must be received in writing by December 2, 1981. Unless a notice is published in the **Federal Register** after the comment period indicating changes to be made, this interim regulation shall become a final regulation.

ADDRESS: Mr. John G. Mannix, Director of Patent Licensing, GP-4, NASA, Washington, D.C. 20546

FOR FURTHER INFORMATION CONTACT:

Mr. John G. Mannix, (202) 755-3954.

SUPPLEMENTARY INFORMATION:

PART 1245—PATENTS AND OTHER INTELLECTUAL PROPERTY RIGHTS

Subpart 2 of Part 1245 is revised to read as follows:

Subpart 2—Licensing of NASA Inventions

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1245.200 Scope of subpart.

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1245.207 Application for a license.

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1245.211 Appeals.

1245.212 Protection and administration of inventions.

1245.213 Transfer of custody.

1245.214 Confidentiality of information.

Authority: 35 U.S.C. Section 207 and 208.94 Stat 3023 and 3024.

Subpart 2—Licensing of NASA Inventions

§ 1245.200 Scope of subpart.

This subpart prescribes the terms, conditions and procedures upon which a NASA invention may be licensed. It does not affect licenses which (a) were in effect prior to July 1, 1981; (b) may exist at the time of the Government's acquisition of title to the invention, including those resulting from the allocation of rights to inventions made under Government research and development contracts; (c) are the result of an authorized exchange of rights in the settlement of patent disputes; or (d) are otherwise authorized by law or treaty.

§ 1245.201 Policy and objective.

It is the policy and objective of this subpart to use the patent system to promote the utilization of inventions arising from NASA supported research and development.

§ 1245.202 Definitions

(a) "Federally owned invention" means an invention, plant, or design which is covered by a patent, or patent application in the United States, or a patent, patent application, plant variety protection, or other form of protection, in a foreign country, title to which has been assigned to or otherwise vested in the United States Government.

(b) "Federal agency" means an executive department, military department, Government corporation, or independent establishment, except the Tennessee Valley Authority, which has custody of a Federally owned invention.

(c) "NASA Invention" means a Federally owned invention with respect to which NASA maintains custody and administration, in whole or in part, of the right, title or interest in such invention on behalf of the United States Government.

(d) "Small business firm" means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of these regulations, the size standard for small business concerns involved in Government procurement, contained in 13 CFR 121.3-8, and in subcontracting, contained in 13 CFR 121.3-12, will be used.

(e) "Practical application" means to manufacture in the case of a composition or product, to practice in the case of a process or method, or to operate in the case of a machine or system; and, in each case, under such condition, as to establish that the invention is being utilized and that its benefits are to the extent permitted by law or Government regulations available to the public on reasonable terms.

(f) "United States" means the United States of America, its territories and possessions, the District of Columbia, and the Commonwealth of Puerto Rico.

§ 1245.203 Authority to grant licenses.

NASA inventions shall be made available for licensing as deemed appropriate in the public interest. NASA may grant nonexclusive, partially exclusive, or exclusive licenses thereto under this subpart on inventions in its custody.

Restrictions and Conditions

§ 1245.204 All licenses granted under this subpart.

(a) *Restrictions.* (1) A license may be granted only if the applicant has supplied NASA with a satisfactory plan for development or marketing of the invention, or both, and with information about the applicant's capability to fulfill the plan.

(2) A license granting rights to use or sell under a NASA invention in the United States shall normally be granted only to a licensee who agrees that any products embodying the invention or produced through the use of the invention will be manufactured substantially in the United States.

(b) *Conditions.* Licenses shall contain such terms and conditions as NASA determines are appropriate for the protection of the interests of the Federal Government and the public and are not in conflict with law or this subpart. The following terms and conditions apply to any license:

(1) The duration of the license shall be for a period specified in the license agreement, unless sooner terminated in accordance with this subpart.

(2) The license may be granted for all or less than all fields of use of the invention or in specified geographical areas, or both.

(3) The license may extend to subsidiaries of the licensee or other parties if provided for in the license but shall be nonassignable without approval of NASA, except to the successor of that part of the licensee's business to which the invention pertains.

(4) The license may provide the licensee the right to grant sublicenses under the license, subject to the approval of NASA. Each sublicense shall make reference to the license, including the rights retained by the Government, and a copy of such sublicense shall be furnished to NASA.

(5) The license shall require the licensee to carry out the plan for development or marketing of the invention, or both, to bring the invention to practical application within a period specified in the license, and to continue to make the benefits of the invention reasonably accessible to the public.

PATENT LICENSING REGULATIONS

(e) Nature and type of applicant's business, identifying products or services which the applicant has successfully commercialized, and approximate number of applicant's employees;

(f) Source of information concerning the availability of a license on the invention;

(g) A statement indicating whether applicant is a small business firm as defined in § 1245.202(c);

(h) A detailed description of applicant's plan for development or marketing of the invention, or both, which should include:

(1) A statement of the time, nature and amount of anticipated investment of capital and other resources which applicant believes will be required to bring the invention to practical application;

(2) A statement as to applicant's capability and intention to fulfill the plan, including information regarding manufacturing, marketing, financial, and technical resources;

(3) A statement of the fields of use for which applicant intends to practice the invention; and

(4) A statement of the geographic areas in which applicant intends to manufacture any products embodying the invention and geographic areas where applicant intends to use or sell the invention, or both;

(i) Identification of licenses previously granted to applicant under Federally owned inventions;

(j) A statement containing applicant's best knowledge of the extent to which the invention is being practiced by private industry or Government, or both, or is otherwise available commercially; and

(k) Any other information which applicant believes will support a determination to grant the license to applicant.

§ 1245.208 Processing applications.

(a) Applications for licenses will be initially reviewed by the Patent Counsel of the NASA installation having responsibility for the invention. The Patent Counsel shall make a preliminary recommendation to the Director of Licensing, NASA Headquarters, whether to: (1) grant the license as requested, (2) grant the license with modification after negotiation with the licensee, or (3) deny the license. The Director of Licensing shall review the preliminary recommendation of the Patent Counsel and make a final recommendation to the NASA Assistant General Counsel for Patent Matters. Such review and final recommendation may include, and be based on, any additional information obtained from applicant and other sources that the Patent Counsel and the Director of Licensing deem relevant to the license requested. The determination to grant or deny the license shall be made by the Assistant General Counsel for Patent Matters based on the final recommendation of the Director of Licensing.

(b) When notice of a prospective exclusive or partially exclusive license is published in the **Federal Register** in accordance with § 1245.206(a)(1)(iii)(A) or § 1245.206(b)(1)(i), any written objections received in response thereto will be considered by the Director of Licensing in making the final recommendation to the Assistant General Counsel for Patent Matters.

(c) If the requested license, including any negotiated modifications, is denied by the Assistant General Counsel for Patent Matters, the applicant may request reconsideration by filing a written request for reconsideration within 30 days after receiving notice of denial. This 30-day period may be extended for good cause.

(d) In addition to, or in lieu of requesting reconsideration, the applicant may also appeal the denial of the license in accordance with § 1245.211.

§ 1245.209 Notice to Attorney General.

A copy of the notice provided for in §§ 1245.206(a)(1)(iii)(A), and 1245.206(b)(1)(i) will be sent to the Attorney General.

§ 1245.210 Modification and termination of licenses.

Before modifying or terminating a license, other than by mutual agreement, NASA shall furnish the licensee and any sublicensee of record a written notice of intention to modify or terminate the license, and the licensee and any sublicensee shall be allowed 30 days after such notice to remedy any breach of the license or show cause why the license should not be modified or terminated.

§ 1245.211 Appeals.

(a) The following parties may appeal to the NASA Administrator or designee any decision or determination concerning the grant, denial, interpretation, modification, or termination of a license:

(1) A person whose application for a license has been denied;

(2) A licensee whose license has been modified or terminated, in whole or in part; or

(3) A person who timely filed a written objection in response to the notice required by §§ 1245.206(a)(1)(iii)(A) or 1245.206(b)(1)(i) and who can demonstrate to the satisfaction of NASA that such person may be damaged by the Agency action.

(b) Written notice of appeal must be filed within 30 days (or such other time as may be authorized for good cause shown) after receiving notice of the adverse decision or determination; including, an adverse decision following the request for reconsideration under § 1245.208(c). The notice of appeal, along with all supporting documentation should be addressed to the Administrator, National Aeronautics and Space Administration, Washington, DC 20546. Should the appeal raise a genuine dispute over material facts, fact-finding will be conducted by the NASA Inventions and Contributions Board. The person filing the appeal shall be afforded an opportunity to be heard and to offer evidence in support of the appeal. The Chairperson of the Inventions and Contributions Board shall prepare written findings of fact and transmit them to the Administrator or designee. The decision on the appeal shall be made by the NASA Administrator or designee. There is no further right of administrative appeal from the decision of the Administrator or designee.

§ 1245.212 Protection and administration of inventions.

NASA may take any suitable and necessary steps to protect and administer rights to NASA inventions, either directly or through contract.

§ 1245.213 Transfer of custody.

NASA having custody of certain Federally owned inventions may transfer custody and administration in whole or in part, to another Federal agency, of the right, title, or interest in any such invention.

§ 1245.214 Confidentiality of information.

Title 35, United States Code, section 209, provides that any plan submitted pursuant to § 1245.207(h) and any report required by § 1245.204(b)(6) may be treated by NASA as commercial and financial information obtained from a person and privileged and confidential and not subject to disclosure under section 552 of Title 5 of the United States Code.

James M. Beggs,

Administrator.

October 15, 1981.

[FR Doc. 81-31609 Filed 10-30-81; 8:45 am]

BILLING CODE 7510-01-M

1. Report No. NASA SP-7039 (37)		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle NASA Patent Abstracts Bibliography A Continuing Bibliography Section 2: Indexes (Supplement 37)				5. Report Date June 1990	
				6. Performing Organization Code NTT	
7. Author(s)				8. Performing Organization Report No.	
9. Performing Organization Name and Address NASA Scientific and Technical Information Division				10. Work Unit No.	
				11. Contract or Grant No.	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, DC 20546				13. Type of Report and Period Covered Special Publication	
				14. Sponsoring Agency Code	
15. Supplementary Notes Section 2: Indexes					
16. Abstract A subject index is provided for over 4600 patents and patent applications for the period May 1969 through June 1990. Additional indexes list personal authors, corporate authors, contract numbers, NASA case numbers, U.S. patent class numbers, U.S. patent numbers, and NASA accession numbers.					
17. Key Words (Suggested by Author(s)) Bibliographies Patent Policy NASA Programs			18. Distribution Statement Unclassified - Unlimited Subject Category - 82		
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of Pages 528	
				22. Price * A23/HC	